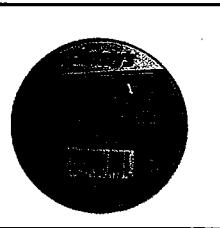
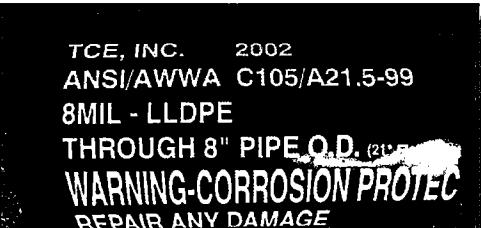
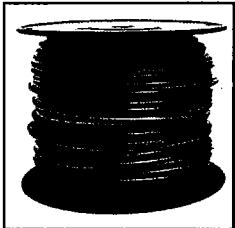
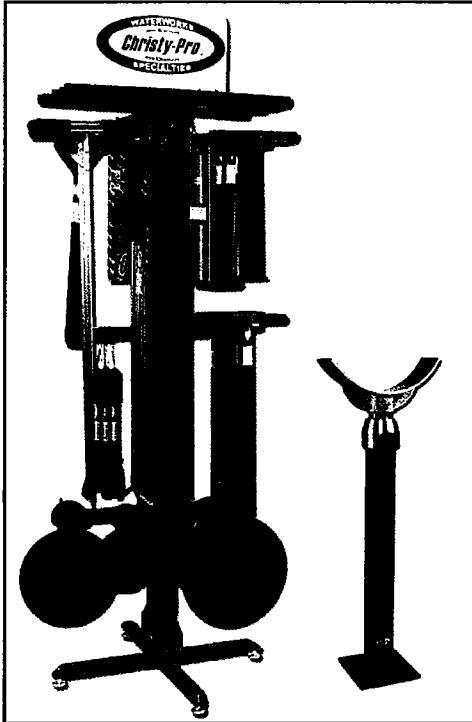
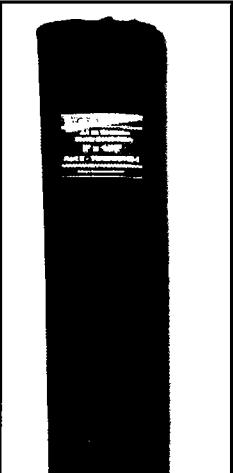
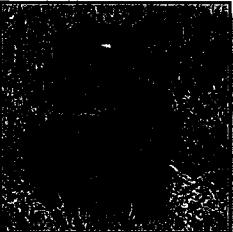


EXHIBIT 9

Christy's™



WATERWORKS

(800) 258-4583
tchristy.com

April 30, 2007

WHY CHRISTY'S™?

The overall mission of Christy's™ is to be the premier supplier to the wholesale waterworks industry. We pride ourselves on delivering a full range of superior products and supporting them with an unwavering commitment to customer satisfaction.

We have continuously invested in facilities and systems to ensure doing business with Christy's™ is easy, enjoyable and profitable. We strive to outperform the competition by having the most knowledgeable and tenured professionals in the industries we serve.

Christy's™ accountability to our customers and our industry is unsurpassed. We actively participate in industry associations, trade shows and training seminars. We also regularly contribute to scholarship and industry improvement initiatives. When you choose Christy's™ as a business partner, you've chosen a single source provider dedicated to making your business and your industry better.

You deserve Profits, Performance and Accountability. We Deliver!

**PROFITS
PERFORMANCE
ACCOUNTABILITY**

CONTACT CHRISTY'S™

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655 E Ball Road
Anaheim CA 92805-9510

Sacramento Sales:

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Fax: (888) 468-4583
3921 Pell Circle
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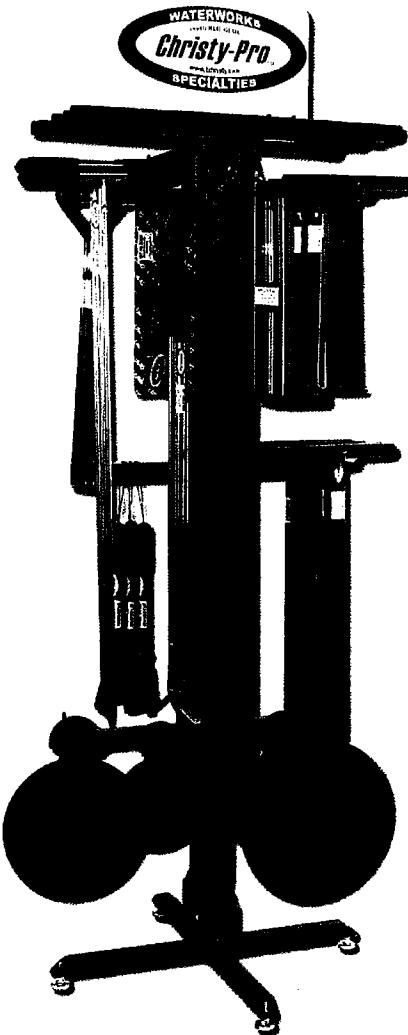
LET CHRISTY'S™ SET YOU UP!

Christy's™ Waterworks Tool Merchandiser Rack puts professional grade tools in front of your customers.

The Waterworks Rack was designed to house the most commonly used tools for Waterworks Professionals in a space that occupies a small footprint in your location.

Christy's™ Waterworks Tools are of the highest quality and are designed by professionals for professionals. Choose a pre-configured rack from Christy's™ or make your own assortment of tools. See pages 50-54 for more information on Christy's™ Tool Rack and Waterworks Tools.

Contact Christy's™ to learn more about our Waterworks Tool Merchandiser Rack and our complete line of Waterworks Tools.



Christy's™ Waterworks Tool Merchandiser Rack was made to put the most commonly used tools for Waterworks Professionals in front of your customers in a convenient and easily accessible format.

TRADEMARKS

The following trademarks are used in this catalog and are registered by the company shown in bold.

3M - 3M
Arch Chemicals - CCH
Captor - Captor5
Christy's - Red Hot Blue Glue
Klein Tools - Klein
Krylon - Krylon
Lenox - Lenox
Norweco - Norweco
Permatex - Fast Orange, Permatex
The Tapecoat Company - Tapecoat
Thermoweld - Thermoweld
The Trenton Corporation - Trenton
WD-40 - WD 40

TABLE OF CONTENTS

Corrosion Protection Products	2
Specialty Tapes & Coatings	10
Specialty Gaskets	12
Packaged Bolt Sets	13
CL150 2" - 12"	
Fire Valves & Accessories	14
Marking Products	16
Marking Tapes, Marking Posts, Marking Paint	
Polyethylene Encasement/Sheeting & Buried Copper Tube Sleeving	20
Backflow Security/Freeze Blankets	23
Water Specialty Products	24
Accessories	27
Gauges, Tracer Wire, Chip Brushes, Tape Measures, Duct Tape, PTFE Tape, Thread Sealant, Pro-Wipes™, Pipewrap Tape, Pipewrap Primer, Repair Kits, Pipe Lubricant, Handi-Pumps	
Hand Tool Accessories	32
Gloves, Cutting Tools, Pliers, Tool Belt, Buckets, Cut-Off Wheels, Handsaws, Hacksaws, Aviation Snips, Lenox® Holesaws, Wrenches, Channellock Pliers, Shovels, Brooms, Tie Downs	
Striking Tools	40
Asphalt Tools	41
Drain/Filter Fabric, Gravel Bags, Drain-EEZ	42
Dewatering Bags	45
Barrier Fencing	46
Safety & Job-Site Accessories	47
Clean-up Bags, Safety Cones, Vests, Earplugs, Neomask, Safety Glasses	
Warehouse Supplies	48
Warning Tapes	49
Waterworks Tool Rack	50
Waterworks Tools	51
Wrenches, Lid Removers, Hooks, Soil Probes, Meter Keys, Digging Bars, Water Service Replacement Kits, Hydrant Slings, Valve Lifters, Test Plates, Pipe Carts, Valve Stem Extensions, Pipe Supports, Waterline Replacement Kits	
Saddle Tap XL	55
Air Valve Accessories	56
Waterworks Custom Fabrication	57
Lubricants & Protectants	60
Striking Wrenches	61
Specialty Tools	62
Lifting Tools	66
Water Test Products	69
Pipe O.D. Chart	77
Index	78

TERMS AND CONDITIONS

ORDERS: Possession of a price list does not constitute an offer to sell. Prices will be those in effect at the time of shipment. Minimum order of \$100.00 net, and can be combined with other Christy's™ products.

TERMS: Terms of payment are Net 30 Days from date of invoice. Payment is to be made in U.S. funds.

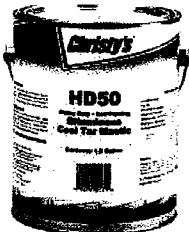
FREIGHT: All prices are F.O.B. point of origin. Freight will be prepaid and allowed on net orders of \$1,000 or more, to one destination via shipper's choice of routing, within the continental United States. However, specifically identified items are F.O.B. Christy's™. Less than \$1,000 net order shipments will be F.O.B. point of origin, freight will be prepaid and added. Net shipments of \$1,000 or more outside of the continental United States will be prepaid to the U.S. border. Some items do not qualify for prepaid freight.

FREIGHT SHORTAGES: All products sold by Christy's™ are selected and checked by separate people. In the event of a shortage, you must notify Christy's™ within five days of receipt. Product claims resulting in shortage or damage from shipping must be addressed with the freight carrier, not Christy's™.

WARRANTY: Christy's™ warranty is limited to replacement of the defective product, solely at the discretion of the manufacturer.

CORROSION PROTECTION PRODUCTS

CHRISTY'S™ HIGH SOLID ONE-PART COAL TAR MASTIC



Christy's™ HD50™ is manufactured from ultra-high build self-priming bituminous coal tars and solvents to produce a general maintenance coating of superior quality and usability. The product is ideally suited for the corrosion protection of below grade metallic pipe and couplings. Meets new AQMD standard.

Comparable to CarboLine® Bitumastic 50.

Sold in Case Quantities Only.

Description	Part Number	Case Quantity	List Price (Each)
Coal Tar Mastic - 1 Gallon	HD50	4	\$61.19
Coal Tar Mastic - 5 Gallons	HD50-5	1	\$305.96

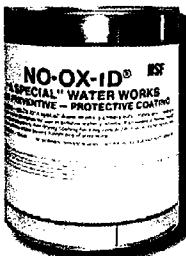
AWWA C210 2-PART COAL TAR EPOXY



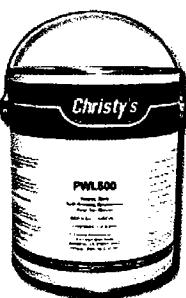
HD300 is a 2-part, 2-can pre-measured coal tar epoxy kit equating to 1-gallon (**requires mixing of parts A & B**). Manufactured using coal tar pitches with exceedingly high moisture resistance for the sewage plant, barge, ship bottom and concrete industries. This material is designed to be used in areas subject to harsh immersion environments. HD300 is self-priming and easily applied by spray after substrate has been blasted to SSPC SP6 tolerances. This material is specifically recommended for exteriors of buried tanks and piping.

Description	Part Number	Case Qty.	List Price (Each)
Standard Black - 1 Gallon Kit	HD300-B	1	\$107.60
Special Order Red - 1 Gallon Kit	HD300-R	1	\$116.96

NO-OX-ID ULTRA-HIGH PERFORMANCE RUST INHIBITOR



Stop rust and block corrosion with NO-OX-ID® rust proofing products. This rust preventive forms a barrier coating to insure corrosion and rust prevention in severe corrosive and marine environments. These anti-corrosion materials contain an active corrosion inhibitor system that will prevent rust with just one coating application. NO-OX-ID is not a paint, it is a rust preventive metal treatment that can work in highly corrosive, high humidity and high salt areas where paints repeatedly fail.



NO-OX-ID® "PWL 600" is heavy-duty grease type rust preventive designed primarily for hot applications. This versatile coating leaves a thick, dark amber, semi-transparent, non-drying film that is easy to apply and easy to remove. In one coat, NO-OX-ID® "PWL 600" gives maximum protection from water, weathering and corrosive atmospheres.

Sold in Case Quantities Only.

Description	Part Number	Case Qty.	List Price (Each)
NO-OX-ID - 1 Gallon	NO-OX-ID-1-WW	4	\$61.48
NO-OX-ID - 5 Gallons	NO-OX-ID-5-WW	1	\$293.93
NO-OX-ID PWL 600 - 1 Gallon	PWL600	4	\$68.89

TC® OMNIPRIME® SOLVENT



This versatile primer can be used with cold or hot applied tapes and heat shrinkable sleeves to protect from corrosion of metal surfaces on pipe, valves, fittings, mechanical couplings and metal connectors.

For use in above or below ground applications. TC® Omniprime® meets federal standards for health and environmental safety.

Sold in Case Quantities Only.

Description	Part Number	Case Qty.	List Price (Each)
TC Omniprime - 1 Gallon	281G	4	\$184.63

CORROSION PROTECTION PRODUCTS

MG301 METAL GUARD TAPE SYSTEM



Metal Guard is a buttery-textured, amber-colored grease that adheres to all metal surfaces. It is water resistant and inhibits oxidation for long service life. This formula's resistance to moisture provides an excellent barrier for guarding metal surfaces against weathering and corrosion. Metal Guard 301 conforms to the latest Cal Water specifications.

Description	Part Number	Case Quantity	List Price (Each)
15 Lbs.	MG301	1	\$62.35

MG301 and the BW4 Tape System entail a two-component installation. Apply the MG301 and then spiral wrap the pipe with the Bit Wrap tape.

PERMATEX® HEAVY-DUTY RUBBERIZED SPRAY UNDERCOAT



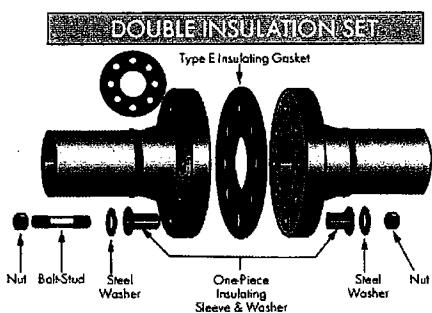
Permatex® heavy-duty spray undercoat is rubberized for maximum durability. Seals, protects and insulates. Suggested Applications: Flange bolts and T-Head assemblies. Other uses include sealing gutters, roofs, drain systems and tree pruning.

Description	Part Number	Case Qty.	List Price (Each)
Permatex® Spray Undercoat	81833	12	\$5.85

SPECIALTY FLANGE INSULATION KITS



Gasket kits consist of an "EN" NEO faced phenolic gasket, double phenolic/steel washers, and full-length mylar sleeves. 150 Lb. ANSI.



BW4 BIT WRAP ASPHALT TAPE



Bit Wrap is a durable woven glass filament mesh that has been treated with asphalt. It is ideal for applications requiring a strong, lightweight reinforcement material. This two-component system (BW4 over MG301) provides both superior corrosion and abrasion protection. Bit Wrap conforms to the latest Cal Water specifications.

Description	Part Number	Case Qty.	List Price (Each)
4" x 150'	BW4	12	\$23.22

ROYSTON #747 PRIMER FOR HANDY-CAP INSTALLATION



Royston primer forms a strong mechanical bond to steel and creates an excellent base for a variety of coatings and tapes. Made from phenolic, synthetic resin, rubber and elastomeric bases, the primer can withstand acids, alkalies and many corrosive chemicals. Maintains excellent adhesion under adverse conditions.

See our Cathodic Insulation Covers on page 6.

Description	Part Number	Case Qty.	List Price (Each)
Royston #747 Primer	747-A	12	\$35.18

Description	Part Number	Case Qty.	List Price (Each)
4" Kit	FIK4	1	\$49.66
6" Kit	FIK6	1	\$59.70
8" Kit	FIK8	1	\$69.24
10" Kit	FIK10	1	\$105.87
12" Kit	FIK12	1	\$122.97
14" Kit	FIK14	1	\$149.67
16" Kit	FIK16	1	\$189.08
18" Kit	FIK18	1	\$207.79
20" Kit	FIK20	1	\$258.35
24" Kit	FIK24	1	\$306.50

CORROSION PROTECTION PRODUCTS

HIGH POTENTIAL MAGNESIUM ANODES



Standard anodes are packaged with 10 feet of #12 AWG solid or stranded copper lead wire, THWN/THNN. Available in bare or packaged form. Packaged anodes are pre-packed in either bags or cardboard cartons in low resistivity, quick wetting, prepared backfill consisting of 75% hydrated gypsum, 20% bentonite, and 5% sodium sulfate.

These Magnesium Anodes meet or exceed **ASTM B-843, AZ63B, Type H1A**. Magnesium anodes are made from Grade A alloy at 5.3 - 6.7% Aluminum, 2.5 - 3.5% Zinc, 0.15% Manganese minimum, 0.003% Iron maximum, 0.002% Nickel maximum, 0.02% Copper maximum, 0.10% Silicon maximum, 0.30% other impurities maximum, with Magnesium contained in the balance. Custom lead wires are available.

Quality manufactured to ISO 9001 standards.

No prepaid freight allowed.

Description	Packaged Weight	Part Number	Case Qty.	List Price (Each)
3 Lb. Anode	8 Lbs	GA-MG-3-HP	5	Call
5 Lb. Anode	17 Lbs	GA-MG-5-HP	5	Call
9 Lb. Anode	27 Lbs.	GA-MG-9-HP	2	Call
17 Lb. Anode	45 Lbs.	GA-MG-17-HP	2	Call
20 Lb. Anode	50 Lbs.	GA-MG-20-HP	2	Call
32 Lb. Anode - 28"	70 Lbs.	GA-MG-32-HP-28	1	Call
40 Lb. Anode	96 Lbs.	GA-MG-40-HP	1	Call
48 Lb. Anode	100 Lbs.	GA-MG-48-HP	1	Call
60 Lb. Anode	125 Lbs.	GA-MG-60-HP	1	Call

ZINC SOIL ANODES



Zinc Anodes for underground use are produced in a variety of sizes and weights. All anodes are packaged with 10 feet of #12 gauge solid or stranded THHN lead. Packaged anodes are pre-packed in either bags or cardboard cartons in low resistivity, quick wetting, prepared backfill consisting of 75% hydrated gypsum, 20% bentonite, and 5% sodium sulfate. Available in bare unpackaged form.

These Zinc Anodes meet or exceed **ASTM B-418-95 Type II**. Soil zinc anodes are made from 99.99% pure special high grade zinc with the remaining material consisting of 0.0014% Iron, 0.003% Lead, 0.002% Copper, 0.005% Aluminum and 0.003% Cadmium. Custom lead wires are available.

Quality manufactured to ISO 9001 standards.

No prepaid freight allowed.

Description	Packaged Weight	Part Number	Case Qty.	List Price (Each)
5 Lb. Anode	20 Lbs	GA-S-5	5	Call
12 Lb. Anode	32 Lbs.	GA-S-12	2	Call
15 Lb. Anode	36 Lbs.	GA-S-15	2	Call
18 Lb. Anode	55 Lbs.	GA-S-18	2	Call
30 Lb. Anode	67 Lbs.	GA-S-30A	2	Call
45 Lb. Anode	100 Lbs.	GA-S-45	1	Call
60 Lb. Anode	120 Lbs.	GA-S-60	1	Call

CORROSION PROTECTION PRODUCTS

MAGNESIUM SPIKES

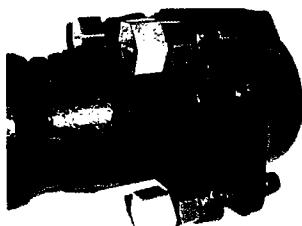


Drive-in Spike Anodes are used in low current requirement applications, such as gas distribution risers and water meter protection. The spikes are manufactured from extruded magnesium rod fitted with an impact resistant HDPE cap. The 3 feet of #12 lead wire (THHN) is silver soldered to the core and the connection is coated with an RTV Silicone and the cap is fitted onto the anode. Lead wire is connected to an adjustable stainless clamp that has a penetrating screw. Typical oxidation potential in most environments is 1.4 to 1.5 volts.

No prepaid freight allowed.

Description	Part Number	Case Qty.	List Price (Each)
0.5 Lb Magnesium Spike - .84" Dia. x 12" Length	GA-MG-0.5DR	1	\$31.11
1.0 Lb Magnesium Spike - 1.315" Dia. x 12" Length	GA-MG-1.0DR	1	\$40.00
1.5 Lb Magnesium Spike - 1.315" Dia. x 18" Length	GA-MG-1.5DR	1	\$51.11
2.5 Lb Magnesium Spike - 1.315" Dia x 30" Length	GA-MG-1.315X30	1	\$64.44

SACRIFICIAL THREADED ZINC CAPS



Sacrificial zinc protection caps stop costly corrosion of buried valves, fittings and mechanical joints on water, oil and gas systems. Zinc caps install directly to the bolt and offer excellent cathodic protection to iron mechanical joint fitting and gland ring assemblies.

Increasing the number of zinc caps used on a system will increase the degree and length of protection. Alloy specifications: MIL-A-18001J, ASTM B418-80. Additional size zinc caps are also available.



Description	Part Number	Case Qty.	List Price (Each)
5/8" Zinc Cap, 2.5 ozs.	P258	100/1800	\$5.22
3/8" Zinc Cap, 2.5 ozs.	P238	100/1800	\$5.22
1/2" Zinc Cap, 2.5 ozs.	P205	100/1800	\$5.22
1/2" Zinc Cap, 6 ozs.	PC05	100/1800	\$6.14
5/8" Zinc Cap, 6 ozs.	PC58	100/1800	\$6.14
3/4" Zinc Cap, 6 ozs.	PC75	100/1800	\$6.14
7/8" Zinc Cap, 6 ozs	PC78	100/1800	\$6.14
1" Zinc Cap, 6 ozs.	PC100	100/1800	\$6.14

CATHODIC INSULATION COVERS

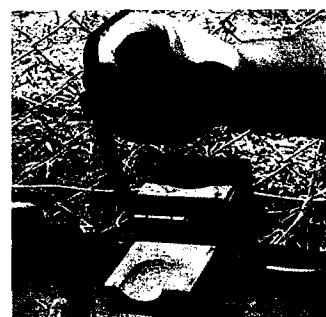


Designed to protect cable connections used in the cathodic protection of pipelines, tanks and other metal surfaces where an exterior cable connection has been installed.

Description	Part Number	Case Qty.	List Price (Each)
Royston Cathodic Insulation Handy-Cap Cover: 4" x 4"	RHC44	24	\$7.57



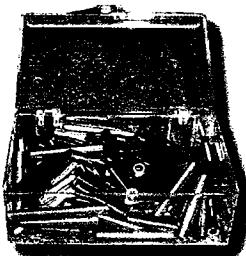
CAD WELDER MOLDS CABLE TO HORIZONTAL SURFACE



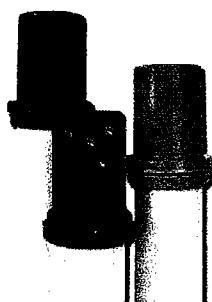
Call for Model & Price

For all horizontal and vertical welders (need wire and pipe size) call our product specialists.

FOR CADWELDS TO CAST IRON & DUCTILE IRON PIPING OR VERTICAL STEEL APPLICATIONS, CALL CHRISTY'S™.

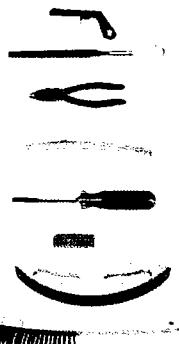
CORROSION PROTECTION PRODUCTS**ACCESSORIES - COPPER THERMOWELD ADAPTER SLEEVES**

Description	Part Number	Case Qty.	List Price (Each)
10-14 Sol/ 12-14 Str Gauge - .156 OD - .111 ID	CA-200	100	\$.48
3-4 Sol/ 4-5 Str Gauge - .302 OD - .246 ID	CA-207	100	\$1.74
8-10 Sol/ 9-10 Str Gauge - .203 OD - .14 ID	CA-208	100	\$.59
6-8 Sol/ 7-10 Str Gauge - .227 OD - .177 ID	CA-201	100	\$.50

TERMINAL ENCLOSURE TEST STATIONS

Terminal enclosure for cathodic protection, telecommunications bonding and grounding, and other utility line applications. Each unit comes standard with 5 stainless steel terminals. Test station manufactured of Lexan® polycarbonate high-impact plastic and stainless steel hardware. Sold cap only.

Description	Part Number	Case Qty.	List Price (Each)
Orange Cap	PM-TS3-6ORG	Bulk	\$28.71
Red Cap	PM-TS3-6RD	Bulk	\$28.71
Blue Cap	PM-TS3-6BLU	Bulk	\$28.71
Yellow Cap	PM-TS3-6YW	Bulk	\$28.71
White Cap	PM-TS3-6WHT	Bulk	\$28.71
Black	PM-TS3-6BLK	Bulk	\$28.71

CAD WELDER ACCESSORIES

Description	Part Number	List Price (Each)
8" File	38-0304-00	\$50.03
Wire Brush	38-0305-00	\$15.00
Card Cloth Brush	38-0306-00	\$12.17
Crimping Tool	38-0307-00	\$56.79
Flint Gun Cad Weld Striker	38-0309-00	\$8.72
Mold Brush	38-3922-00	\$18.78

GROUND ROD - COPPER BONDED

High carbon steel with an electrolytically applied copper finish in 1/2", 5/8", 3/4" and 1" diameters in varying lengths. Available in single-type and sectional ground rod style.

When driven into the ground, the copper bonded ground rod provides a ground for substations, towers, homes, buildings and all other structures containing electrical products. UL Listed with a .010" copper electroplated finish on high-quality, high-carbon steel to produce a corrosion resistant product in a wide variety of environments.

Description	Part Number	Case Qty.	List Price (Each)
1/2" x 8'	GR508	1	Call
1/2" x 10'	GR5010	1	Call
5/8" x 6'	GR586	1	Call
5/8" x 8'	GR588	1	Call
5/8" x 10'	GR5810	1	Call
3/4" x 8'	GR758	1	Call
3/4" x 10'	GR7510	1	Call
1" x 10'	GR10010	1	Call

No prepaid freight allowed.

CORROSION PROTECTION PRODUCTS**304 STAINLESS STEEL T-HEAD BOLT FOR MECHANICAL JOINTS**

304 Stainless Steel T-Head Bolts for mechanical joints are ANSI/AWWA/A21.11-90 certified. In assembling stainless steel T-Head Bolts and Nuts it is essential that all surfaces are kept extremely clean and that an anti-seize compound is applied to the surfaces of the threads.

Description	Gland Size	Required Quantity	Recommended Torque	Part Number	Case Qty.	List Price (Each)
3/4" X 3-1/2"	4"	4	75 - 90 Lbs.	TH304-3435	50	\$13.84
	6"	6	75 - 90 Lbs.			
3/4" x 4"	8"	6	75 - 90 Lbs.	TH304-3440	50	\$14.42
	10"	8	75 - 90 Lbs.			
	12"	8	75 - 90 Lbs.			
3/4" x 4-1/2"	14"	10	75 - 90 Lbs.	TH304-3445	50	\$15.01
	16"	12	75 - 90 Lbs.			
	18"	12	75 - 90 Lbs.			
	20"	14	75 - 90 Lbs.			
3/4" x 5"	24"	16	75 - 90 Lbs.	TH304-3450	50	\$15.40
1" x 6"	30"	20	100 - 120 Lbs.	TH304-16	Bulk	Call
	36"	24	100 - 120 Lbs.			

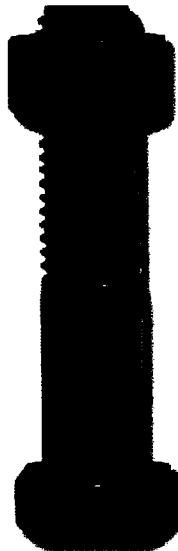
316 STAINLESS STEEL T-HEAD BOLT FOR MECHANICAL JOINTS

316 Stainless Steel T-Head Bolts for mechanical joints are ANSI/AWWA/A21.11-90 certified. In assembling stainless steel T-Head Bolts and Nuts it is essential that all surfaces are kept extremely clean and that an anti-seize compound is applied to the surfaces of the threads.

Description	Gland Size	Required Quantity	Recommended Torque	Part Number	Case Qty.	List Price (Each)
3/4" X 3-1/2"	4"	4	75 - 90 Lbs.	TH316-3435	50	\$15.98
	6"	6	75 - 90 Lbs.			
3/4" x 4"	8"	6	75 - 90 Lbs.	TH316-3440	50	\$16.57
	10"	8	75 - 90 Lbs.			
	12"	8	75 - 90 Lbs.			
3/4" x 4-1/2"	14"	10	75 - 90 Lbs.	TH316-3445	50	\$17.15
	16"	12	75 - 90 Lbs.			
	18"	12	75 - 90 Lbs.			
	20"	14	75 - 90 Lbs.			
3/4" x 5"	24"	16	75 - 90 Lbs.	TH316-3450	50	\$17.93
1" x 6"	30"	20	100 - 120 Lbs.	TH316-16	Bulk	Call
	36"	24	100 - 120 Lbs.			

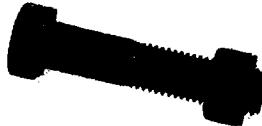
CORROSION PROTECTION PRODUCTS

CHRISTY'S™ BLUE BOLTS FOR CORROSION RESISTANCE



Christy's Blue Bolts are protected with a coating system that shows no signs of corrosion after 1,000 hours of salt spray testing (ASTM-B-117). Plain steel, zinc plated, and hot dip galvanized bolts all show significant degrees of corrosion and rust when subjected to the same testing.

The unique coating system is achieved with careful surface preparation. Abrasive blasting, a baked aerocote nickel primer and multiple electrostatically sprayed coats of our fluoropolymer blue coating are baked on the bolts at 425°F. The blue coating combines a wide range of mechanical and chemical properties ideally suited to the wide range of fasteners used in waterworks applications. It offers low friction, abrasion resistance, and protection against corrosion and chemicals. The fasteners are easily tightened and removed.



CHRISTY'S™ BLUE BOLTS - PACKAGED, CL 150, COATED FLANGE BOLT SETS



Description	Part Number	Case Qty.	List Price (Each)
4"	BFS4	1	\$89.97
6" - 8"	BFS68	1	\$118.76
10" - 12"	BFS1012	1	\$214.13
14"	BFS14	1	\$266.31
16"	BFS16	1	\$352.68
18"	BFS18	1	\$451.64
20"	BFS20	1	\$608.19
24"	BFS24	1	\$791.72



CHRISTY'S™ BLUE BOLTS - PACKAGED, COATED - T-HEAD BOLTS

Description	Part Number	Case Qty.	List Price (Each)
4"	BTH4	1	\$70.18
6"	BTH6	1	\$105.26
8"	BTH8	1	\$113.36
10" - 12"	BTH1012	1	\$145.75
14"	BTH14	1	\$194.33
16"	BTH16	1	\$229.42
18"	BTH18	1	\$229.42
20"	BTH20	1	\$267.21
24"	BTH24	1	\$331.98

CORROSION PROTECTION PRODUCTS

DIRECT BURIAL GROUND ROD CLAMPS



Connects grounding conductor to copper ground rod. Approved for direct burial in the earth and concrete. Contains a bronze hex-headed bolt. Manufactured from high-strength, corrosion resistant bronze.

Description	Part Number	Case Qty.	List Price (Each)
1/2"	GRC50	1	Call
5/8"	GRC58	1	Call
3/4"	GRC75	1	Call
1"	GRC100	1	Call

GROUNDING CLAMPS



BRONZE GROUNDING CLAMPS - 10 SOL-2 STR GAUGES UL/CSA

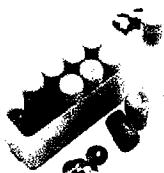
Description	Part Number	Case Qty.	List Price (Each)
1/2" - 1" Pipe	KP1	100	\$5.31
1-1/4" - 2" Pipe	KP2	50	\$12.41
2-1/2" - 4" Pipe	KP4	1	\$59.00

CATHODIC PROTECTION CABLE

Description	Part Number	Case Qty.	List Price (Each)
8 Gauge 7 Stranded HMW/PE	8CAD500	1	Call
6 Gauge 7 Stranded HMW/PE	6CAD500	1	Call
4 Gauge 7 Stranded HMW/PE	4CAD500	1	Call

No prepaid freight allowed.

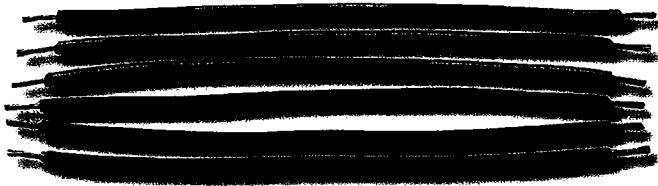
THERMOWELD® POWDER



Thermoweld® Powder is packed in moisture-resistant plastic cartridges with tight fitting caps. These cartridges and the necessary steel discs are then packed in boxes that are hermetically-sealed to insure dry and fast positive ignition. Thermoweld® Powder comes in two types; one for welding copper to copper, copper to steel and copper to rail and one for welding copper to cast iron. The size and weight (in grams) of the cartridge are marked on each individual cartridge.

Sold in box quantities only.

JUMPERS/ BONDING CABLES



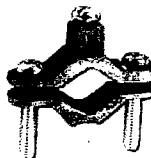
Cathodic Jumper Cables are short lengths of insulated copper cable used to electrically connect pipeline joints or multiple pipelines for cathodic protection. Cables are cut to length with the insulation stripped at each end for attachment to the pipeline.

Call Christy's™ for special sizes.

Description	Part Number	Case Qty.	List Price (Each)
#2 Gauge x 18"	2CAD18	Bulk	Call
#2 Gauge x 24"	2CAD24	Bulk	Call
#4 Gauge x 18"	4CAD18	Bulk	Call
#4 Gauge x 24"	4CAD24	Bulk	Call
#4 Gauge x 36"	4CAD36	Bulk	Call
#8 Gauge x 18"	8CAD18	Bulk	Call

SEE PAGE 6 FOR ADAPTER SLEEVES.

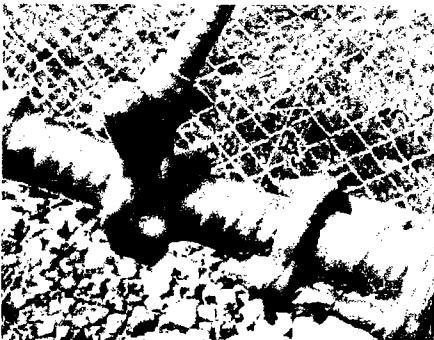
ALL BRASS GROUNDING CLAMPS



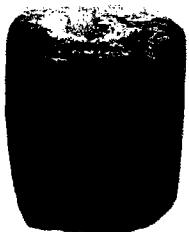
Christy's all-brass grounding clamps are UL Rated for direct burial applications. UL/FM Approved. Direct Burial rated.

Description	Part Number	Case Qty.	List Price (Each)
1/2" - 1"	BGC1	25	Call
1-1/4" - 2"	BGC2	10	Call

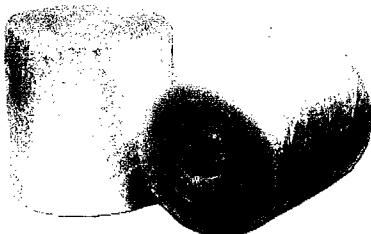
Description	Part Number	Box Qty.	List Price (Each)
Standard Cartridge - Size #15	15P	20	\$3.70
Standard Cartridge - Size #25	25P	20	\$5.19
Standard Cartridge - Size #32	32P	20	\$5.93
Standard Cartridge - Size #45	45P	20	\$6.02
Standard Cartridge - Size #65	65P	20	\$6.91
Cast Iron Cartridge - Size #25	25CI	20	\$6.07
Cast Iron Cartridge - Size #32	32CI	20	\$6.77
Cast Iron Cartridge - Size #45	45CI	20	\$7.90
Cast Iron Cartridge - Size #65	65CI	20	\$8.49

SPECIALTY TAPES & COATINGS**COLD APPLIED AWWA C209 & WAX TAPES****WAX TAPES AND ACCESSORIES**

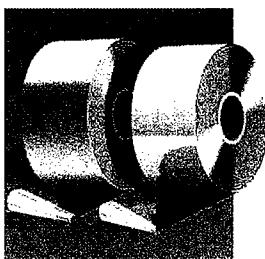
Description	Part Number	Case Qty.	List Price (Each)
#1 Wax Tape - 4" x 9'	1WXT49	24	\$24.65
#1 Wax Tape - 6" x 9'	1WXT69	16	\$27.45
Guard Wrap - 6" x 150'	GW6X150	6	\$70.89
Poly-ply - 6" x 50'	PP6X50	18	\$27.27
Temcoat - 3 Gallon Pail	TM3G	1	\$266.67
Brown Wax Tape Primer - 1 Gallon	WTPB1	4	\$62.41

Sold in Case Quantities Only

Trenton Wax Tape



Trenton Poly-ply Tape



Tapecoat Tape

TAPECOAT® CT - COLD APPLIED TAPE COATING

Tapecoat® CT is a 35 mil cold-applied tape coating with a 7 mil polyethylene film backing and 28 mils of adhesive used for ambient temperature below grade application. Appropriate for coating small to moderate size pipe with a single layer. A 50% overlap may be preferred when coating larger diameter pipe.

Description	Part Number	Case Qty.	List Price (Each)
H50 Black - 2" x 75'	205021-75	12	\$43.47
H50 Black - 4" x 75'	205041-75	6	\$86.91
H50 Black - 6" x 75'	205061-75	4	\$130.38

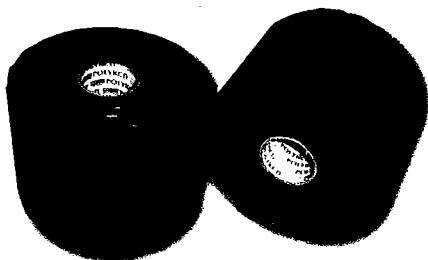
Sold in Case Quantities Only**TAPECOAT® GRAY - COLD APPLIED TAPE COATING**

Tapecoat® Gray coatings are innovative cold applied tapes that exceed all previous performance criteria for protection from corrosion in above and below ground pipelines, girth welds and fittings. Tapecoat incorporates a patented integrated primer into these protective tapes and eliminates the dangers of emissions and hazardous waste associated with the application of liquid primers. Tapecoat Gray can be applied over a wide range of temperatures for the protection of most metal surfaces. Available in 50 or 35 mil.

Description	Part Number	Case Qty.	List Price (Each)
H50 Gray 50 mil - 2" x 50'	209021G	12	\$42.61
H50 Gray 50 mil - 4" x 50'	209041G	6	\$85.22
H50 Gray 50 mil - 6" x 50'	209061G	4	\$127.86

Description	Part Number	Case Qty.	List Price (Each)
H35 Gray 35 mil - 2" x 75'	211021G-SW	12	\$42.29
H35 Gray 35 mil - 4" x 75'	211041G-SW	6	\$84.55
H35 Gray 35 mil - 6" x 75'	211061G-SW	4	\$125.84

Sold in Case Quantities Only

SPECIALTY TAPES & COATINGS**POLYKEN® 930 HIGH-TACK POLY TAPE**

Polyken® 930 Series.

Polyken 930 is a cold applied tape coating system designed for the corrosion protection of field joints, fittings, and specialty piping. The unique adhesive retains conformability over a wide temperature range, yet exhibits an elevated level of sheer resistance, which is a key in-ground performance characteristic. Coupled with the low-density polyethylene backing, this versatile tape system can be applied by hand or with a wrapping machine.

Polyken 930 utilizes a heavy duty adhesive, is conformable to irregular shapes, and acts as a no release liner. Polyken 930 has established in-ground history and is compatible with generic plant coating systems. The Polyken 930 tape coating system exceeds the AWWA C-209 Standard.

Description	Part Number	Case Qty.	List Price (Each)
2" x 50' Black 35 mil	930-35B2	24	\$24.87
4" x 50' Black 35 mil	930-35B4	12	\$44.81

Sold in Case Quantities Only

POLYKEN® 932 HIGH-TACK POLY TAPE

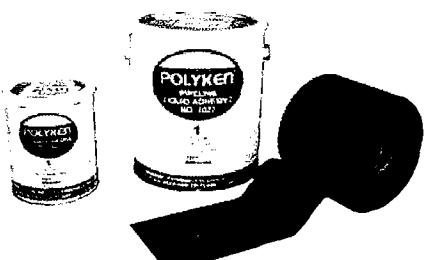
Polyken® 932 Series.

Polyken #932 is a cold applied tape coating system designed for the corrosion protection of field joints, fittings, and specialty piping. The high tack butyl rubber adhesive is designed for high initial adhesion, even during extreme cold weather applications. Coupled with the highly conformable polyethylene backing, the tape system provides superb cold flow and instantaneous bonding to the substrate.

Polyken 932 utilizes a super high tack adhesive, is conformable to irregular shapes, and can be applied by hand or machine. Polyken 932 has established in-ground history and is compatible with generic plant coating systems. The Polyken 932 tape coating system exceeds the AWWA C-209 Standard.

Description	Part Number	Case Qty.	List Price (Each)
2" x 50' White 35 mil	932-35W2	24	\$29.73
2" x 50' Black 35 mil	932-35B2	24	\$29.73
4" x 50' Black 35 mil	932-35B4	24	\$59.42

Sold in Case Quantities Only

POLYKEN® 1027 PRIMER

Polyken liquid/aerosol adhesive systems are recommended for use with only Polyken coating systems. The liquid adhesive systems consist of butyl based elastomers blended with polymeric resins dissolved in an organic solvent system. They can be used for machine or hand brush application, are non-toxic and non-polluting, and conform to local and National standards. In addition to the excellent adhesion to the pipe substrate and cathodic disbondment resistance, the pipe surface is protected against stress corrosion cracking with industry proven SCC inhibitors.

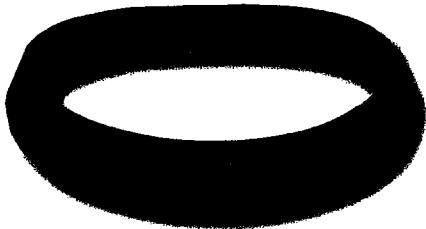
Description	Part Number	Case Qty.	List Price (Each)
Quart	1027-QT	12	\$49.27
Gallon	1027-GL	4	\$95.87
12 oz. Aerosol	1027-A	12	\$38.00

Sold in Case Quantities Only

SPECIALTY GASKETS

SPECIALTY GASKETS

Our Specialty Gaskets are AWWA C111 and ANSI 21.11 approved.



MJ GASKETS FOR MJ FITTINGS & GATE VALVES

Description	Part Number	Case Qty.	List Price (Each)
4"	TC-MG4	1	\$1.98
6"	TC-MG6	1	\$2.13
8"	TC-MG8	1	\$3.51
10"	TC-MG10	1	\$4.11
12"	TC-MG12	1	\$5.13

TYTON JOINT/ PUSH-ON GASKETS FOR PUSH-ON FITTINGS & VALVES

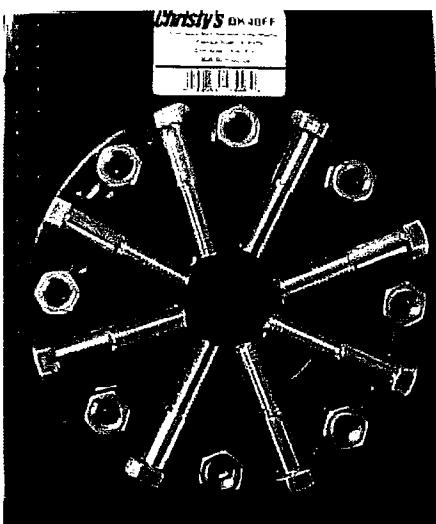
Description	Part Number	Case Qty.	List Price (Each)
4"	TJ4	100	\$3.38
6"	TJ6	60	\$4.86
8"	TJ8	45	\$6.80
10"	TJ10	35	\$8.55
12"	TJ12	24	\$10.02

CHRISTY'S™ MANHOLE WATERSTOP ADAPTER GASKET

Description	Part Number	Case Qty.	List Price (Each)
4" Round Style	MA4	250	\$3.80
6" Round Style	MA6	130	\$4.27
8" Round Style	MA8	100	\$5.04
10" Round Style	MA10	100	\$7.78
12" Round Style	MA12	100	\$7.91
15" Round Style	MA15	80	\$11.29
18" Round Style	MA18	1	\$38.89
21" Flat Style	MA21	1	\$44.44
24" Flat Style	MA24	1	\$48.89
27" Flat Style	MA27	1	\$54.44
30" Flat Style	MA30	1	\$55.56
36" Flat Style	MA36	1	\$62.22
42" Flat Style	MA42	1	\$77.78
48" Flat Style	MA48	1	\$93.33

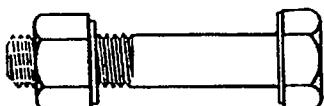
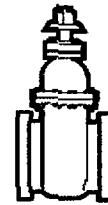
Christy's™ Manhole Waterstop Adapter Gaskets are designed for use on PVC Sewer pipe when installing into a concrete manhole wall. They are made of SBR (styrene, butadiene rubber) elastomeric, an excellent waterstop material. Conforms to ASTM C-923.

**FOR C-900 OR IPS O.D.
APPLICATIONS, CALL OUR
PRODUCT SPECIALISTS.**

CHRISTY'S™ PACKAGED BOLT SETS**CHRISTY'S™ PACKAGED BOLT SETS**

All Christy's Packaged Bolt Sets include zinc plated nuts, bolts and gaskets that conform to AWWA C110. Gaskets are either ring or full-face neoprene. Larger sizes and additional gasket materials (red rubber, asbestos, non-asbestos and garloc) are available as a special order.

Ring gasket and face gasket sets are packaged in blister packs to prevent lost bolts and gaskets and to protect against rust and corrosion. **For cast iron CL150 flanges only.**



Description	Part Number	Case Qty.	List Price (Each)
2" Flange Kit with Ring Gasket, 4 bolts (5/8" x 2-1/2")	BK20RG	1	\$8.39
2" Flange Kit with Face Gasket, 4 bolts (5/8" x 2-1/2")	BK20FF	1	\$8.96
2" Flange Kit with No Gasket, 4 bolts (5/8" x 2-1/2")	BK20BS	1	\$6.20
2-1/2" Flange Kit with Ring Gasket, 4 bolts (5/8" x 2-3/4")	BK25RG	1	\$8.59
2-1/2" Flange Kit with Face Gasket, 4 bolts (5/8" x 2-3/4")	BK25FF	1	\$9.12
2-1/2" Flange Kit with No Gasket, 4 bolts (5/8" x 2-3/4")	BK25BS	1	\$6.20
3" Flange Kit with Ring Gasket, 4 bolts (5/8" x 2-3/4")	BK30RG	1	\$8.76
3" Flange Kit with Face Gasket, 4 bolts (5/8" x 2-3/4")	BK30FF	1	\$9.49
3" Flange Kit with No Gasket, 4 bolts (5/8" x 2-3/4")	BK30BS	1	\$6.20
4" Flange Kit with Ring Gasket, 8 bolts (5/8" x 3")	BK40RG	1	\$15.16
4" Flange Kit with Face Gasket, 8 bolts (5/8" x 3")	BK40FF	1	\$16.05
4" Flange Kit with No Gasket, 8 bolts (5/8" x 3")	BK40BS	1	\$9.49
6" Flange Kit with Ring Gasket, 8 bolts (3/4" x 3-1/4")	BK60RG	1	\$21.36
6" Flange Kit with Face Gasket, 8 bolts (3/4" x 3-1/4")	BK60FF	1	\$22.82
6" Flange Kit with No Gasket, 8 bolts (3/4" x 3-1/4")	BK60BS	1	\$14.43
8" Flange Kit with Ring Gasket, 8 bolts (3/4" x 3-1/2")	BK80RG	1	\$26.47
8" Flange Kit with Face Gasket, 8 bolts (3/4" x 3-1/2")	BK80FF	1	\$28.29
8" Flange Kit with No Gasket, 8 bolts (3/4" x 3-1/2")	BK80BS	1	\$14.41
10" Flange Kit with Ring Gasket, 12 bolts (7/8" x 3-3/4")	BK10RG	1	\$61.49
10" Flange Kit with Face Gasket, 12 bolts (7/8" x 3-3/4")	BK10FF	1	\$63.85
10" Flange Kit with No Gasket, 12 bolts (7/8" x 3-3/4")	BK10BS	1	\$36.12
12" Flange Kit with Ring Gasket, 12 bolts (7/8" x 4")	BK12RG	1	\$66.24
12" Flange Kit with Face Gasket, 12 bolts (7/8" x 4")	BK12FF	1	\$69.15
12" Flange Kit with No Gasket, 12 bolts (7/8" x 4")	BK12BS	1	\$36.12

FIRE VALVES & ACCESSORIES**CONNECTIONS**

V8480



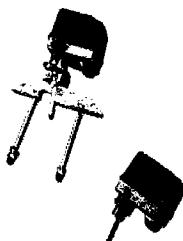
8480

CONNECTIONS

6405



6507

**SUPERVISORY SWITCHES**

The 1010206 monitors the open position of an OS&Y type gate valve. Mounts to valves ranging in size from 2" - 12". Contains 2 sets of SPDT (Form C Contacts).

The 1010207 monitors the open position of fire sprinkler control valves of the post indicator, butterfly and other types.

Description	Part Number	Case Qty.	List Price (Each)
Outside Screw & Yoke Valve Supervisory Switch	1010206	1	\$133.33
Control Valve Supervisory Switch	1010207	1	\$124.45

ANGLE HOSE VALVES - CAST BRASS - 300 LB.

Call Christy's™ for additional sizes, configurations and optional finishes.



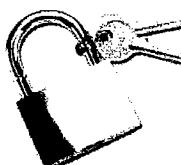
Female NPT Inlet x Male Hose Thread Outlet

Description	Part Number	Case Qty.	List Price (Each)
1-1/2" Angle Valve	5010	1	\$76.68
2-1/2" Angle Valve	5015	1	\$119.60

FIRE HOSES - RUBBER LINED

All prices based on NST thread. 500 lb. test, 300 lb. rated.

Description	Part Number	List Price (Each)
Single Jacket 1-1/2" x 50'	3415-50	\$134.00
Single Jacket 1-1/2" x 100'	3415-100	\$211.66

BREAKABLE PADLOCK

Cadmium plated steel padlock with brittle shackle.

Description	Part Number	Case Qty.	List Price (Each)
5/8"	7158	24	\$7.00
3/4" For PIVS	7175	24	\$10.97

3-WAY GAUGE TEST VALVE - 1/4"

300 WOG @ 180° Max. 100% pressure tested. Screwed ends. Bronze body with brass stem, washer and nut. Nitrile o-ring. Aluminum hand wheel with stainless steel screw.



Description	Part Number	Case Qty.	List Price (Each)
3-Way Gauge Test Valve	76	25	\$19.22

FIRE VALVES & ACCESSORIES**BRASS FIRE HOSE NOZZLE**

1-1/2" Brass Fire Hose Nozzle is approved for Class A fires by Factory Mutual Laboratories. Hydrostatic tested to 1,000 PSI. Recessed washer will not fall out. NPT thread.



Description	Part Number	Case Qty.	List Price (Each)
1-1/2"	8511007	1	\$55.56

RED LEXAN FIRE HOSE NOZZLE

1-1/2" Red Lexan Fire Hose Nozzle is a combination type nozzle approved for Class A fires by Factory Mutual Laboratories. Hydrostatic tested to 1,000 PSI. Recessed washer will not fall out. NPT thread.



Description	Part Number	Case Qty.	List Price (Each)
1-1/2"	8511008	1	\$17.65

BRASS FIRE HYDRANT GATE VALVE

2-1/2" Brass Fire Hydrant Gate Valve with speed handle. 2-1/2" NST swivel inlet x 2-1/2" NST male outlet.



Description	Part Number	Case Qty.	List Price (Each)
2-1/2"	8521032	1	\$188.88

WAFER CHECK VALVE - UL/FM

UL Listed and FM Approved anti-water hammer check valve for fire pump service. 100% pressure tested. 250 WOG @ 180° Max. Ductile iron body, bronze seat ring assembly, stainless steel screw, Buna-N seat and face o-rings, steel pipe plug. 4" size is provided with 1/2" pipe plug in drain port as standard configuration.



Description	Part Number	Weight (lbs.)	Case Qty.	List Price (Each)
4"	4WC	15	1	\$250.59
6"	6WC	19	1	\$394.69
8"	8WC	29	1	\$626.38

BRASS CAP AND CHAIN**THREADED FDC BRASS PLUG**

Description	Part Number	List Price (Each)
1-1/2"	5709	\$22.00
2-1/2"	5713-B	\$23.00
4-1/2"	4645	\$206.66

Description	Part Number	List Price (Each)
1-1/2" With Attached Chain	5940	\$25.64
2-1/2" With Attached Chain	6747-NST	\$39.32

FIRE VALVES & ACCESSORIES



7245 - Female x male pin lug.



7201 - Double male hex adapter.



7215 - Double female hex adapter.



7220 - Female x male hex adapter.

PIN LUG OR ROCKER LUG ADAPTERS

FEMALE x MALE PIN LUG BRASS ADAPTER (NST x Male Garden Hose Thread)

POPULAR

Description	Part Number	List Price (Each)
Female x Male - 2-1/2" x 3/4"	7245-1	\$31.11

FEMALE x MALE PIN LUG BRASS ADAPTERS (NST x NPT)

Description	Part Number	List Price (Each)
Female x Male - 2-1/2" x 3/4"	7245-75NST	\$33.33
Female x Male - 2-1/2" x 1"	7245-2	\$31.11
Female x Male - 2-1/2" x 1-1/2"	7245-3	\$31.11
Female x Male - 2-1/2" x 2"	7245-4	\$31.11

HEX ADAPTERS

DOUBLE MALE BRASS HEX ADAPTERS (NST x NPT)

Description	Part Number	List Price (Each)
Double Male Brass - 1-1/2" x 1-1/2"	7201-1	\$22.78
Double Male Brass - 2-1/2" x 2-1/2"	7201-4	\$38.60
Double Male Brass - 4-1/2" x 4"	7201-7	\$320.00

DOUBLE FEMALE BRASS HEX ADAPTERS (NST x NPT)

Description	Part Number	List Price (Each)
Double Female Brass - 1-1/2" x 1-1/2"	7215-1	\$27.87
Double Female Brass - 2-1/2" x 2-1/2"	7215-2	\$40.56

FEMALE x MALE BRASS HEX ADAPTERS (NST x NPT)

Description	Part Number	List Price (Each)
Female x Male Brass - 1-1/2" x 1-1/2"	7220-1	\$20.56
Female x Male Brass - 2-1/2" x 2-1/2"	7220-4	\$41.49

MARKING PRODUCTS

CURB MARKER



This high strength, surface mounted marker is made from Lexan® and is an easy and inexpensive way to mark all buried cable and pipelines. Available in six colors they can include your custom message and logo.



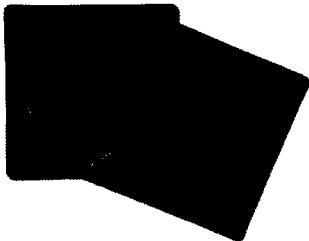
The Curb Marker is flush mounted onto a curb, sidewalk or manhole using a tube adhesive. Durable, they stand up to freezing temperatures. The Epoxy Installation Kit will set approximately 75 markers.

50 piece minimum order.

Description	Part Number	Case Qty.	List Price (Each)
Red Electric	4CMRE	50	\$12.32
Yellow Gas	4CMYG	50	\$12.32
Orange Fiber Optic	4CMFO	50	\$12.32
Blue Waterline	4CMBW	50	\$12.32
Blue Potable Waterline	4CMBPW	50	\$12.32
Reclaimed/Recycled Waterline	4CMRRW	50	\$12.32
Green Sewer Line	4CMGS	50	\$12.32
No Dumping - Drains To Ocean	4CMDTO	50	\$12.32
No Dumping - Drains To Lake	4CMDTL	50	\$12.32
No Dumping - Drains To Creek	4CMDTC	50	\$12.32
No Dumping - Drains To River	4CMDTR	50	\$12.32
Epoxy Installation kit 1-part	CME1	1	\$20.20

MARKING PRODUCTS

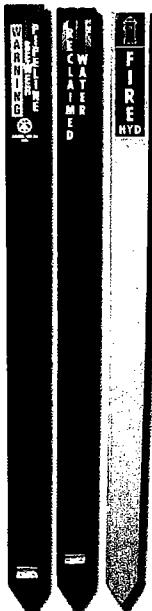
GROUND HYDRANT/PAVEMENT REFLECTORS - 4" x 4"



Pavement reflectors to mark hydrant locations are manufactured with an optic grade acrylic. *Don't forget a taping kit or rapid set epoxy.*

Description	Part Number	Case Qty.	List Price (Each)
Blue	PRB44	50	\$4.29
Green	PRG44	50	\$4.29
Amber	PRA44	50	\$4.29
White	PRW44	50	\$4.29
Red	PRR44	50	\$4.29
Hydrant 2-sided Taping Kit - Good for use on one reflector only	HTK2	250	\$1.56
Rapid Set Epoxy Parts A & B - Good for 15-18 placements	RSE10	1	\$87.72

SUPERFLEX™ FIBERGLASS PIPELINE & CABLE MARKING POSTS



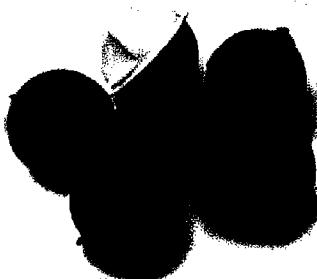
Christy's™ offers Superflex™ Fiberglass Pipeline & Cable Marking Posts that reduce service interruptions by visibly indicating where a buried pipeline, cable, valve or other underground utility is located. Anchor kits and decals are pre-installed. UV protected and non-burning (ASTM D-635).

Description	Part Number	Case Qty.	List Price (Each)
66" - Blue, Water	ID-SF66-BW	1	\$35.74
66" - Green, Sewer	ID-SF66-GS	1	\$35.74
66" - Orange, Fiber-optic	ID-SF66-OF	1	\$35.74
66" - Orange, Telephone	ID-SF66-OT	1	\$35.74
66" - Purple, Reclaimed Water	ID-SF66-PRW	1	\$35.74
66" - Yellow, Gas Line	ID-SF66-YG	1	\$35.74
66" - Red, Electric	ID-SF66-RE	1	\$35.74
Misc. Decal for ID-SF66 Marker	ID-SF-DECAL	1	\$5.56
Post Driver for Fiberglass Pipeline Markers	JMI-D-375	1	\$351.85



Post Driver

ELECTRONIC MARKERS



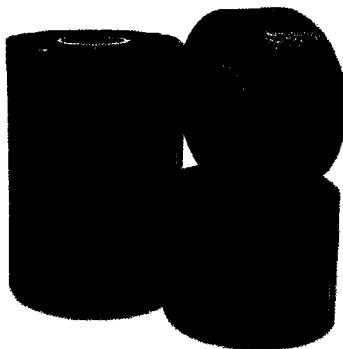
Omni Electronic Markers can be used to mark or locate buried splices and load coils, buried service drops, pipe ends/ stub-outs, conduit stubs, road crossings, cable paths, fiber optic facilities, manholes under pavement or grade changes, snow-covered facilities, survey points, sewer points, sewer taps, repair points, and non-metallic lines. **Case quantities only.**

Quantity Discounts Available

Description	Part Number	Case Qty.	List Price (Case)
Yellow	1500147	24	\$766.42
Blue	1500144	24	\$766.42
Green	1500145	24	\$766.42
Red	1500143	24	\$766.42
Omni Marker Locator	1500592	1	\$3,517.37

MARKING PRODUCTS

CHRISTY'S™ UNDERGROUND NON-DETECTABLE TAPE



Christy's™ Underground Non-Detectable Tape uses lead-free black ink that will not fade or contaminate the ground. Elongation is >400 percent at break point. 4 mil. Virgin LLDPE/LDPE.

Description	Part Number	Case Qty.	List Price (Each)
3" x 1,000'	TA-ND-3-XXX	8	\$25.70
6" x 1,000'	TA-ND-6-XXX	4	\$44.32
12" x 1,000'	TA-ND-12-XXX	2	\$88.65

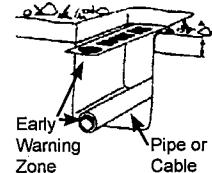
CHRISTY'S™ UNDERGROUND DETECTABLE TAPE



Pallet
Quantity Discounts Available.
Call for Details.

Christy's™ Underground Detectable Tape has a 2.0 mil (0.0020") solid aluminum foil core, encapsulated within 2.55 mil (0.00255") polyethylene backing (5 mil total thickness). See below for Standard Color/ Legend Combinations. All color and legend combinations are not available in all widths. Call Christy's™ with your specific requirements, to receive Christy's™ Marking Products Catalog, or for pallet quantity discounts.

Description	Part Number	Case Qty.	List Price (Each)
2" x 1,000'	TA-DT-2-XXX	12	\$35.10*
3" x 1,000'	TA-DT-3-XXX	8	\$52.33*
6" x 1,000'	TA-DT-6-XXX	4	\$105.27*
12" x 1,000'	TA-DT-12-XXX	2	\$209.31*



HOW TO ORDER UNDERGROUND MARKING TAPES

TA-XX-XX-XXX

TYPE OF TAPE
DT - Detectable
ND - Non-Detectable

WIDTH OF TAPE
2 - 2"
3 - 3"
6 - 6"
12 - 12"

COLORS
B - Blue
P - Purple
Y - Yellow
G - Green
R - Red
W - White
O - Orange
BR - Brown

Example:

TA-DT-2-PRW

2" Detectable Purple Reclaimed Water

NOTE: Not all widths are available as standard for the stock color/legend combinations shown. Contact Christy's™ for stock availability of specific products. Non-stock combinations are subject to minimum requirements.

STANDARD COLOR/ LEGEND COMBINATIONS

LEGENDS	Blue BI	"Caution Irrigation Line Buried Below"
CP - Cathodic Protection	Blue BNPW	"Caution Non-Potable Water Line Buried Below"
CTN - Caution	Blue BPW	"Caution Potable Water Line Buried Below"
DNG - Danger	Blue BW	"Caution Water Line Buried Below"
E - Electric	Brown BFM	"Caution Force Main Buried Below"
F - Fire	Green GFM	"Caution Force Main Buried Below"
FM - Force Main	Green GI	"Caution Irrigation Line Buried Below"
FO - Fiber Optic	Green GNPW	"Caution Non-Potable Line Buried Below"
G - Gas	Green GPW	"Caution Potable Line Buried Below"
I - Irrigation	Green GRAW	"Caution Raw Water Line Buried Below"
NPW - Non-Potable Water	Green GS	"Caution Sewer Line Buried Below"
PW - Potable Water	Green GSTDR	"Caution Storm Drain Buried Below"
RAW - Raw Water	Orange OFO	"Caution Fiber Optic Line Buried Below"
RW - Reclaimed Water	Orange OT	"Caution Telephone Line Buried Below"
S - Sewer	Orange OCP	"Caution Cathodic Protection Cable Buried Below"
STDR - Storm Drain	Purple PRW	"Caution Recycled/ Reclaimed Water Line Buried Below"
T - Telephone	Red RE	"Caution Electric Line Buried Below"
W - Water	Red RF	"Caution Fire Line Buried Below"
	Red RDNG	"Danger Do Not Enter" (Above or below ground)
	Yellow YCTN	"Caution Caution Caution" (Above or below ground)
	Yellow YG	"Caution Gas Line Buried Below"

MARKING PRODUCTS

CONSTRUCTION/TURF MARKING PAINT



Designed for inverted spraying. Quik-Mark™ marking paint is an economical, water-based formula designed to adhere to most surfaces. The mark is visible for 14 days depending on traffic and exposure. 17 oz. net weight.

Description	Part Number	Case Qty.	List Price (Each)
Fluorescent Pink	S03612	12	\$6.53*
Fluorescent Red	S03610	12	\$6.53*
Fluorescent Orange	S03700	12	\$6.53*
APWA Red	S03911	12	\$6.53*
APWA White	S03901	12	\$6.53*
APWA Green	S03904	12	\$6.53*
APWA Blue	S03903	12	\$6.53*
APWA Yellow	S03801	12	\$6.53*

SURVEY MARKING PAINT



Designed for inverted spraying. High paint solids mean a more durable mark and more lineal feet per can. All colors are lead-free for safe use in all locations. Complies with California VOC standards for reduced emission spray paints. 17 oz. net weight.

Sold in case quantities only.

Description	Part Number	Case Qty.	List Price (Each)
Clear	S03600	12	\$6.98*
Black	S03550	12	\$6.98*
Safety White	S03900	12	\$6.98*
Fluorescent Purple	S03615	12	\$6.98*
Fluorescent Red	S03613	12	\$6.98*
Fluorescent Orange	S03702	12	\$6.98*
Fluorescent Green	S03614	12	\$6.98*
Fluorescent Yellow	S03821	12	\$6.98*
Fluorescent Blue	S03722	12	\$6.98*
Fluorescent Pink	S03622	12	\$6.98*
Fluorescent Red/ Orange	S03701	12	\$6.98*

KRYLON ALL-PURPOSE MARKING PAINT



A cost effective, water based all-purpose spray on paint for interior or exterior use. It is formulated for one-coat coverage & designed for inverted spraying. This all purpose paint is VOC compliant and free of lead hazards.

Sold in case quantities only.

Description	Part Number	Case Qty.	List Price (Each)
Yellow	WDMP03801	12	\$6.28*
Red	WDMP03911	12	\$6.28*
Blue	WDMP03903	12	\$6.28*
Green	WDMP03904	12	\$6.28*
White	WDMP03901	12	\$6.28*
Fluorescent Red	WDMP03610	12	\$6.28*
Fluorescent Orange	WDMP03700	12	\$6.28*
Fluorescent pink	WDMP03612	12	\$6.28*

MARKING PAINT HOLDERS



Description	Part Number	List Price (Each)
Spot Marker - 12"	K07095	\$36.26*
34" Marking Stick	K07096	\$44.22*

* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

CHRISTY'S™ POLYETHYLENE ENCASEMENT - 20' PERFORATIONS**CONFORMS TO ANSI/AWWA C105/A21.5-99 - PRINTED****Product Type:** Polyethylene encasement for gray, ductile and cast iron piping for water and other liquids.**Description:** Polyethylene in tube or sheet form for the encasement of piping. Perforated every 20' or 22' as specified.**Specifications:** Polyethylene film is manufactured of virgin polyethylene material conforming to the material requirements of ANSI/AWWA C105/A21.5-99 and the following requirements of the latest revision of ASTM standard specification D-4979, polyethylene plastics, molding and extrusion materials.**Material:** Group - 2 (linear). Density - 0.910 to 0.935 g/cm³. Dielectric strength - Volume resistivity 10¹⁵ ohm-cm., min. Class - A (natural/ clear color), B (colors)(l), C (black).**Physical Properties:** Minimum tensile strength - 3600 PSI (24.8 MPa). Minimum elongation - 800% (ASTM 882). Minimum dielectric strength - 800 V/mil (ASTM D149). Minimum impact resistance - 600 g (ASTM D1709 Method B). Minimum propagation tear resistance - 2550 gf (ASTM D1922).

TCE, INC. 2002
ANSI/AWWA C105/A21.5-99
8MIL - LLDPE
THROUGH 8" PIPE O.D. (21.5"
WARNING-CORROSION PROTEC
REPAIR ANY DAMAGE

Thickness: Linear low-density polyethylene film has a minimum thickness of 0.008" (8 mils).**Color:** Polyethylene film is supplied with its natural color, colors including white and black, or black (weather-resistant) containing not less than 2 percent carbon black with an average particle diameter of 50 mm or less. A minimum of 2 percent of a hindered-amine ultraviolet inhibitor in any natural or colored film except black film containing 2 percent or more carbon black. Black Polyethylene film is naturally U.V. protected.**BLACK POLYETHYLENE ENCASEMENT - 400', 200', 340' ROLLS - CURRENT SPECIFICATION - 20' PERFORATIONS**
8 mil minimum. Black Polyethylene Encasement AWWA C105/A21.5-99 - Printed

Description	Part Number	Color	Nominal Pipe O.D.	Feet per Roll	Feet per Perf	Rolls per Pallet	List Price
16" x 400'	WRP-16400B-AWWA	Black	4" - 6"	400	20	20	Call
20" x 400'	WRP-20400B-AWWA	Black	8"	400	20	20	Call
24" x 400'	WRP-24400B-AWWA	Black	10"	400	20	16	Call
27" x 400'	WRP-27400B-AWWA	Black	12"	400	20	16	Call
30" x 400'	WRP-30400B-AWWA	Black	14"	400	20	16	Call
30" x 200'	WRP-30200B-AWWA	Black	14"	200	20	25	Call
34" x 200"	WRP-34200B-AWWA	Black	16"	200	20	25	Call
37" x 200'	WRP-37200B-AWWA	Black	18"	200	20	25	Call
54" x 200'	WRP-54200B-AWWA	Black	24"	200	20	16	Call
67" x 200'	WRP-67200B-AWWA	Black	30"	200	20	12	Call
84" x 200'	WRP-84200B-AWWA	Black	36" - 42"	200	20	10	Call
21" x 340'	WRP-21340B-AWWA	Black	8"	340	20	20	Call
24" x 340'	WRP-24340B-AWWA	Black	10"	340	20	16	Call
29" x 340'	WRP-29340B-AWWA	Black	12"	340	20	16	Call
37" x 340'	WRP-37340B-AWWA	Black	18"	340	20	16	Call
54" x 340'	WRP-54340B-AWWA	Black	24"	340	20	12	Call

CHRISTY'S™ POLYETHYLENE ENCASEMENT - 20' PERFORATIONS**CLEAR POLYETHYLENE ENCASEMENT - 400', 200', 340' ROLLS - CURRENT SPECIFICATION**

8 mil minimum. Clear Polyethylene Encasement AWWA C105/A21.5-99 - Printed

Description	Part Number	Color	Nominal Pipe O.D.	Feet per Roll	Feet per Perf	Rolls per Pallet	List Price
20" x 400'	WRP-20400C-AWWA	Clear	8"	400	20	20	Call
30" x 400'	WRP-30400C-AWWA	Clear	14"	400	20	16	Call
37" x 200'	WRP-37200C-AWWA	Clear	18"	200	20	25	Call
54" x 200'	WRP-54200C-AWWA	Clear	24"	200	20	16	Call
21" x 340'	WRP-21340C-AWWA	Clear	8"	340	20	20	Call
29" x 340'	WRP-29340C-AWWA	Clear	12"	340	20	16	Call
37" x 340'	WRP-37340C-AWWA	Clear	18"	340	20	16	Call
54" x 340'	WRP-54340C-AWWA	Clear	24"	340	20	12	Call

GREEN POLYETHYLENE ENCASEMENT - 340' ROLLS - CURRENT SPECIFICATION

8 mil minimum. Green Polyethylene Encasement AWWA C105/A21.5-99 - Printed

Description	Part Number	Color	Nominal Pipe O.D.	Feet per Roll	Feet per Perf	Rolls per Pallet	List Price
21" x 340'	WRP-21340G-AWWA	Green	8"	340	20	20	Call
29" x 340'	WRP-29340G-AWWA	Green	12"	340	20	16	Call
37" x 340'	WRP-37340G-AWWA	Green	18"	340	20	16	Call

PURPLE POLYETHYLENE ENCASEMENT - 340' ROLLS - CURRENT SPECIFICATION

8 mil minimum. Purple Polyethylene Encasement AWWA C105/A21.5-99 - Printed - Recycled/Reclaimed Water

Description	Part Number	Color	Nominal Pipe O.D.	Feet per Roll	Feet per Perf	Rolls per Pallet	List Price
21" x 340'	WRP-21340P-AWWA	Purple	8"	340	20	20	Call
29" x 340'	WRP-29340P-AWWA	Purple	12"	340	20	16	Call
37" x 340'	WRP-37340P-AWWA	Purple	18"	340	20	16	Call
54" x 340'	WRP-54340P-AWWA	Purple	24"	340	20	12	Call

POLYWRAP SIZING

Pipe Size	Polywrap Size	Pipe Size	Polywrap Size
Through 6"	16"	Through 18"	37"
Through 8"	20"/21"	Through 24"	54"
Through 10"	24"	Through 30"	67"
Through 12"	27"/29"	Through 36"	84"
Through 14"	30"	Through 42"	84"
Through 16"	34"		

Custom Sizes &
Print Available - Subject to minimum quantity
extrusion runs of 5,000 lbs.

Sizing shown conforms to ANSI/AWWA C105/A21.5-99.

CHRISTY'S™ POLYETHYLENE ENCASEMENT - 22' PERFORATIONS**BLACK POLYETHYLENE ENCASEMENT - 440' & 220' ROLLS - CURRENT SPECIFICATION**

8 mil minimum. Black Polyethylene Encasement AWWA C105/A21.5-99 - Printed

Description	Part Number	Color	Nominal Pipe O.D.	Feet per Roll	Feet per Perf	Rolls per Pallet	List Price
20" x 440'	WRP-20440B-22AW	Black	8"	440	22	20	Call
24" x 440'	WRP-24440B-22AW	Black	10"	440	22	16	Call
27" x 440'	WRP-27440B-22AW	Black	12"	440	22	16	Call
30" x 220'	WRP-30220B-22AW	Black	14"	220	22	25	Call
30" x 440'	WRP-30440B-22AW	Black	14"	440	22	16	Call
34" x 220'	WRP-34220B-22AW	Black	16"	220	22	25	Call
37" x 220'	WRP-37220B-22AW	Black	18"	220	22	25	Call
54" x 220'	WRP-54220B-22AW	Black	24"	220	22	16	Call
67" x 220'	WRP-67220B-22AW	Black	30"	220	22	12	Call

CLEAR POLYETHYLENE ENCASEMENT - 440' & 220' ROLLS - CURRENT SPECIFICATION

8 mil minimum. Clear Polyethylene Encasement AWWA C105/A21.5-99 - Printed

Description	Part Number	Color	Nominal Pipe O.D.	Feet per Roll	Feet per Perf	Rolls per Pallet	List Price
20" x 440'	WRP-20440C-22AW	Clear	8"	440	22	20	Call
27" x 440'	WRP-27440C-22AW	Clear	12"	440	22	16	Call
37" x 220'	WRP-37220C-22AW	Clear	18"	220	22	25	Call
54" x 220'	WRP-54220C-22AW	Clear	24"	220	22	16	Call

CHRISTY'S™ POLYETHYLENE COPPER TUBE SLEEVING

For use in protecting copper service runs.

**BLUE POLYETHYLENE ENCASEMENT**

6 mil average. Blue Polyethylene Encasement - Not Printed

Description	Part Number	Color	Nominal Pipe O.D.	Feet per Roll	Feet per Perf	Rolls per Pallet	List Price
3" x 200'	WRP-03200BLUE	Blue	1"	200	n/a	—	Call
4" x 200'	WRP-04200BLUE	Blue	2"	200	n/a	—	Call

CLEAR POLYETHYLENE ENCASEMENT

6 mil average. Clear Polyethylene Encasement. Not printed.

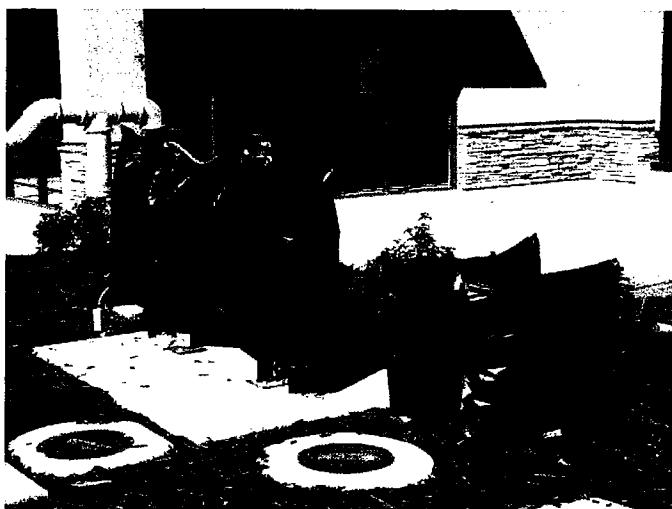
Description	Part Number	Color	Nominal Pipe O.D.	Feet per Roll	Feet per Perf	Rolls per Pallet	List Price
3" x 720'	WRP-03720C-06	Clear	1"	720	n/a	—	Call
4" x 720'	WRP-04720C-06	Clear	1-1/2"	720	n/a	—	Call
5" x 720'	WRP-05720C	Clear	2"	720	n/a	48	Call

CHRISTY'S™ POLYETHYLENE VISQUEEN FITTING WRAP**CLEAR POLYETHYLENE SHEETING - CURRENT SPECIFICATION**

8 mil minimum. Clear Polyethylene Sheeting AWWA C105/A21.5-99 - Printed

Description	Part Number	Color	Nominal Pipe O.D.	Feet per Roll	Feet per Perf	Rolls per Pallet	List Price
36" x 100'	WRP-36100C-AWWA	Clear	n/a	100	n/a	42	Call

BACKFLOW SECURITY/ FREEZE BLANKETS



Description/ Size	Sizing Guidelines	Part Number	List Price (Each)
20" x 18"	3/4"	BFSC2018	\$123.46
24" x 20"	3/4" through 1"	BFSC2420	\$180.25
24" x 24"	3/4" through 1-1/4"	BFSC2424	\$141.98
36" x 24"	1-1/2" through 2"	BFSC3624	\$251.85
36" x 36"	2"	BFSC3636	\$424.69
48" x 30"	2" through 2-1/2"	BFSC4830	\$461.73
48" x 42"	2-1/2"	BFSC4842	\$461.73
60" x 38"	2-1/2" through 3"	BFSC6038	\$777.78
72" x 38"	4"	BFSC7238	\$1000.00
93" x 48"	6"	BFSC9348	\$1222.22
102" x 48"	8"	BFSC10248	\$1,456.79

BFSC6038 through BFSC10248 require the manufacturer and model number before placing an order.

PRODUCT SPECIFICATIONS

Christy's™ Backflow Security/Freeze Blankets help to protect your investment. Manufactured of Herculite 10W laminated fabric, these security/ freeze blankets are capable of withstanding 2000 hours of weatherometer exposure in it's pre-laminated state. The base fastening is made of Velcro® Texacro® with a #70 hook and #71 loop.

The blanket carries an R19 insulation rating and uses a non-biodegradable insulating material.

You may specify width and height of a customized backflow security/freeze blanket or choose from Christy's™ standard configurations below. For special blankets, please provide the following information: 1) Backflow size, 2) Model number, and 3) OS&Y's.

Break Strength: Method: 191-5100. Values: W 125 100°F.

Tear Strength: Method: 191-5134. Values: W 34 35°F.

Insulation: R19 Faced.

Grommet: #3 Spurred rolled.

Custom Fitted
Bags Also Available for Water Storage
Tanks and Pressure Reducing Valves in Water Treatment
Plants. Call for Details.

WATER SPECIALTY PRODUCTS

PERMATEX® #1C FORM-A-GASKET SEALANT



Reliable paste-like gasket sealant/ dressing/ coating. It sets quickly to a hard set and is recommended for rigid, permanent assemblies. Permatex® is most commonly used to coat cut gaskets to improve sealing and hold the gasket in place. RH-1C has a temperature rating of up to 400°F (204°C) and is resistant to gasoline and other solvents. Conforms to MIL-S45180 D.

Description	Part Number	Case Qty.	List Price (Each)
#1C 11 oz. Tube	RH-1C	12	See Solvents*

CHLORINATING



CCH® Chlorine contains 68 percent available chlorine and is available in either granular or tablet form. Convenient, easy to use and handle. Expensive, complex metering equipment is not required. CCH® is the #1 choice of Waterworks Professionals.

Description	Part Number	Case Qty.	List Price (Each)
Granular Chlorine - 5 Lb. Jug	30929	6	\$31.31
Granular Chlorine - 25 Lb. Jug	22206	1	\$156.50
Granular Chlorine - 100 Lb. Jug	22209	1	\$374.35
1" Chlorine Tablets - 5 Lb. Jug	30932	6	\$38.31

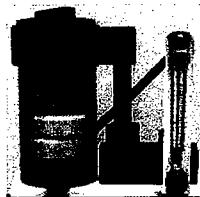
PERMATEX® #2C FORM-A-GASKET SEALANT



Reliable paste-like gasket sealant/ dressing/ coating. It is a slow drying, non-hardening sealant best suited for non-rigid, vibrating assemblies. Permatex® is most commonly used to coat cut gaskets to improve sealing and hold the gasket in place. However, RH-2C is also used in attaching chlorine tablets to the inner wall of a pipe system. RH-2C has a temperature rating of up to 400°F (204°C) and is resistant to gasoline and other solvents. Conforms to MIL-S45180 D.

Description	Part Number	Case Qty.	List Price (Each)
#2C 11 oz. Tube	RH-2C	12	See Solvents*

MANIFOLDS FOR TABLETS OR LIQUID



Tablet manifold is capable of modification to liquid manifold.

Special Order Only.

Tablet Manifold.

Description	Part Number	Case Qty.	List Price (Each)
Liquid Manifold for Chlorination or Dechlorination	LM-2000	1	\$1,428.57
Tablet Manifold for Dechlorination	TMD-2000	1	\$1,428.57

* Solvents pricing is available from Christy's™ Solvents & Sealants Catalog and is subject to change. Please call to confirm pricing.

WATER SPECIALTY PRODUCTS**LIQUID BAZOOKA DECHLORINATING UNITS**

The Dechlorination "Bazooka" attaches directly on a 2-1/2", 4" or 4-1/2" fire hydrant fitting, or a 2" or 3" riser from a water main. By opening the hydrant valve or riser valve, water passes through the unit creating a vacuum which pulls the dechlorination chemical from its supply container into the chlorinated water, neutralizing it to EPA standards.

Special Order Only

FHF = Fire Hydrant Fitting

THD = Female Pipe Threads

FLG = Flange Fittings.

Description	Part Number	Case Qty.	List Price (Each)
2.5" x 2.5" Dechlorinator	DBL-2000-2.5-THD	1	\$3,539.68
4.5" x 4.5" Dechlorinator	DBL-2000-4.5-FHF	1	\$7,174.60
2.5" x 2.5" Dechlorinator - Tablet	DBT-2000-2.5-FHF	1	\$7,174.60
4.5" x 4.5" Dechlorinator - Tablet	DBT-2000-4.5-FHF	1	\$7,174.60

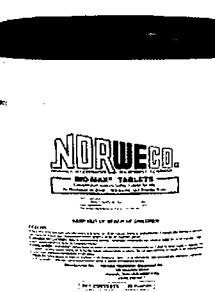
DECHLORINATION - NORWECO® BIO NEUTRALIZER TABLETS

Bio-Neutralizer Tablets have a controlled chemical dissolve rate. This controlled dose means less product usage and saves on your costs. Also, more control over the amount of chemical being dosed means less chemical

added to the receiving stream.

In applications treating high velocity rates and pressure, such as when using a bazooka to dechlorinate, it is beneficial to use a tablet with integrity.

Description	Part Number	Case Qty.	List Price (Each)
Sodium Sulfite Dechlorinating Tablets 2-5/8" Dia. 5 oz. - 25 Lb. Jug	DC25	1	\$192.59
Sodium Sulfite Dechlorinating Tablets 2-5/8" Dia. 5 oz. - 45 Lb. Jug	DC45	1	\$292.59

BIO-MAX® DECHLORINATION TABLETS

Bio-Max Dechlorination Tablets provide a convenient to use source of concentrated sodium sulfite to instantly remove chlorine from wastewater, potable water and process water. The tablets allow plant operators to meet chlorine discharge limitations in a low cost, low maintenance, environmentally safe manner.

Description	Part Number	Case Qty.	List Price (Each)
48 Lb. Jug	BM48	1	\$340.73

VITA-D-CHLOR DECHLORINATING GRANULES

Vita-D-Chlor is a specially formulated product for safe, rapid and complete dechlorination of water. Vita-D-Chlor utilizes ascorbic acid chemistry for dechlorination. Vita-D-Chlor is 100 percent organic and is completely soluble.

Granular

Description	Part Number	List Price (Each)
5.5 Lb. Jug	VDC5.5	\$134.41
Tablets - 3 oz. 2-5/8"		
6	VDT6	\$107.53
20	VDT20	\$322.58
40	VDT40	\$512.00
140	VDT140	\$1,039.00
3 Pocket Tablet Mat	3P-TABY	\$22.40

**CAPTOR® DECHLORINATION- LIQUID CALCIUM**

Liquid calcium thiosulfate solution for dechlorination. For highly chlorinated applications of 50 PPM or more.

Description	Part Number	Case Qty.	List Price (Each)
Liquid Calcium Thiosulfate - 5 Gal.	CAPTOR5	1	\$154.55

WATER SPECIALTY PRODUCTS

WATER TRACING DYE SYSTEMS - NSF

Use our Water Tracing Dyes to detect leaks in sewage systems, trace water and industrial effluents, trace cross connection systems, measure power plant discharge, detect toilet tank leaks, detect illegal sewer connections, monitor flow studies and mapping, and to analyze septic systems.



WATER TRACING TABLETS - 200 PER BOTTLE - 1 tablet provides strong visual in 60 gals.

Description	Part Number	Case Qty.	List Price (Ea.)
Fluorescent Yellow-Green (Black Light)	FLT-YG-T	1	\$112.65
Fluorescent Red (Black Light)	FLT-RED-T	1	\$112.65
Non-fluorescent Blue	STD-BLU-T	1	\$112.65
Non-food Grade Blue	NFG-BLU-T	1	\$112.65



WATER TRACING LIQUID

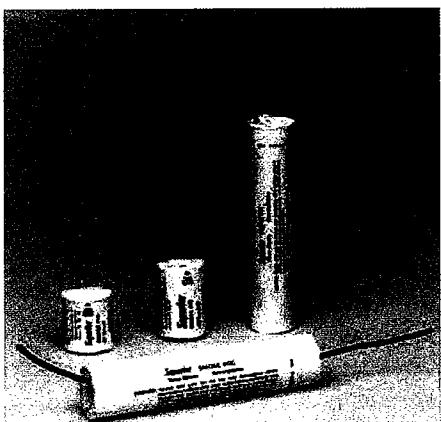
Description	Part Number	Case Qty.	List Price (Ea.)
Fluorescent Yellow-Green (Black Light) - 1 Pint Visual in 12,500 Gals.	FLT-YG-L	1	\$36.24
Non-food Grade Blue - 1 Pint Visual in 12,500 Gals.	NFG-BLU-L	1	\$36.24
Non-fluorescent Blue - 1 Pint Visual in 12,500 Gals.	STD-BLU-L	1	\$36.24
Fluorescent Orange (Black Light) - 1 Pint Visual in 4,000 Gals.	FLT-ORG-L	1	\$57.95
Fluorescent Red (Black Light) - 1 Pint Visual in 3,125 Gals.	FLT-RED-L25	1	\$36.24
Fluorescent Red (Black Light) - 1 Pint Visual in 6,250 Gals.	FLT-RED-L50	1	\$72.31
Fluorescent Red (Black Light) - 1 Pint Visual in 25,000 Gals.	FLT-RED-L200	1	\$230.26



WATER TRACING POWDER - 1 pound powder provides strong visual in 120,000 gals.

Description	Part Number	Case Qty.	List Price (Ea.)
Fluorescent Yellow-Green (Black Light) - 1 Lb.	FLT-YG-P	1	\$209.23
Non-food Grade Blue - 1 Lb.	NFG-BLU-P	1	\$209.23
Non-fluorescent Blue - 1 Lb.	STD-BLU-P	1	\$292.99
Fluorescent Orange (Black Light) - 1 Lb.	FLT-ORG-P	1	\$292.99
Fluorescent Red (Black Light) - 1 Lb.	FLT-RED-P	1	\$292.99

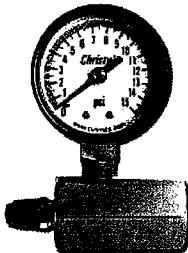
SMOKE CANDLES



Many inspectors and contractors prefer to test with smoke rather than use time-consuming water or air pressure tests. A smoke test can reveal leaks that permit surface water inflow, drains of all types, poorly soldered or fitted joints and leaky seals, and rodent passages into the line.

These smoke candles produce a clean efficient smoke that is a consistent quality from beginning to end, is white or gray in color depending on density and lighting, and contain no explosive materials. Meets recommendations of WEF, EPA and NASSCO. Case quantities only.

Description	Part Number	Case Qty.	List Price (per Case)
30 Second - 4,000 Cubic Ft.	1A	12	\$97.78
60 Second - 8,000 Cubic Ft.	2B	12	\$108.89
3 Minute - 40,000 Cubic Ft.	3C	12	\$199.29
3 Minute - Double Wicked <i>Double wicked, furnished with quick clips for extended smoke generating time.</i>	W3C	12	\$213.33

ACCESSORIES**AIR TEST GAUGE**

- Steel case with 2" dial
- Precision made parts
- Brass 3/4" FPT connection

AIR TEST GAUGE BELL REDUCER

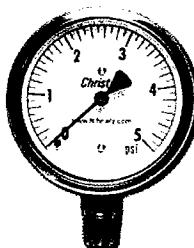
- Steel case with 2" dial
- Precision made and assembled with sealant
- Top mount
- Brass 3/4" FPT connection

Description	Part Number	Each	List Price (Each)
0-15 PSI (1/10th increments)	TG.A.15.20	1	\$12.61
0-30 PSI	TG.A.30.20	1	\$12.61
0-60 PSI	TG.A.60.20	1	\$12.61
0-100 PSI	TG.A.100.20	1	\$12.61
Body ONLY, Steel	TG.A.BOD	1	\$4.80
Body, Steel, w/ Air Valve	TG.A.BAV	1	\$6.55
1/8" Air Valve with Cap	TG.A.VCAP	1	\$2.71

Description	Part Number	Each	List Price (Each)
0-15 PSI (1/10th increments)	TG.ABR.15.20	1	\$12.61
0-30 PSI	TG.ABR.30.20	1	\$12.61
0-60 PSI	TG.ABR.60.20	1	\$12.61
0-100 PSI	TG.ABR.100.20	1	\$12.61
Bell Reducer, Only 3/4"	TG.ABR.BOD	1	\$4.77

PRESSURE GAUGE

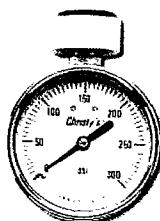
- Steel case with 2" dial
- Plastic face
- For testing water or gas pressure
- Precision made parts
- Brass 1/4" MPT connection

LOW PRESSURE AIR TEST GAUGE

Suited for low pressure measurement where the conventional bourdon tube cannot perform reliably.

- CRN Registered
- 2-1/2" Dial

Description	Part Number	Each	List Price (Each)
0-5 PSI	TG05	1	\$49.95

WATER TEST GAUGE

- Precision made
- Brass 3/4" FHT connection
- Steel Case

Description	Dial	Part Number	Each	List Price (Each)
0-160 PSI	2"	TG.W.160.20	1	\$11.60
0-300 PSI	2"	TG.W.300.20	1	\$11.60
0-160 PSI	2-1/2"	TG.W.160.25	1	\$13.20
0-300 PSI	2-1/2"	TG.W.300.25	1	\$13.20
Swivel Connection-3/4" FHT x 1/4" FPT		TG.W.SWC	1	\$2.56

Other Dial
Sizes are Available Up to 4".
Please Call for Information.

ACCESSORIES**LIQUID FILLED GAUGES**

- For service applications where pulsation, corrosion, or vibration is present.
- Stainless steel case
- 1/4" brass MPT connection

2-1/2" Dial

Description	Part Number	Each	List Price (Each)
0-15 PSI (1/10th increments)	TG.LF.15.25	1	\$30.83
0-30 PSI	TG.LF.30.25	1	\$30.83
0-60 PSI	TG.LF.60.25	1	\$30.83
0-100 PSI	TG.LF.100.25	1	\$30.83
0-160 PSI	TG.LF.160.25	1	\$30.83
0-200 PSI	TG.LF.200.25	1	\$30.83
0-300 PSI	TG.LF.300.25	1	\$30.83
0-400 PSI	TG.LF.400.25	1	\$30.83

4" Dial

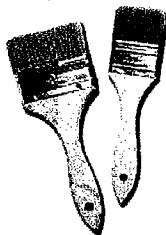
0-15 PSI (1/10th increments)	TG.LF.15.4	1	\$72.88
0-300 PSI	TG.LF.300.4	1	\$72.88
0-2000 PSI	TG.LF.2000.4	1	\$72.88
0-3000 PSI	TG.LF.3000.4	1	\$72.88
0-5000 PSI	TG.LF.5000.4	1	\$72.88

UL/FM FIRE PROTECTION SPRINKLER GAUGE

- Used on "wet" systems where water is available to sprinkler heads.
- Case material is ABS
- 3-1/2" dial
- Brass 1/4" NPT connection



Description	Part Number	Each	List Price (Each)
0-300 PSI	1005PXUL	1	\$19.11

CHIP BRUSH

General purpose, economical brush. Ideal for mastic and pipe lube application.

Description	Part Number	Case Qty.	List Price (Each)
2"	CB2	12	\$.91*

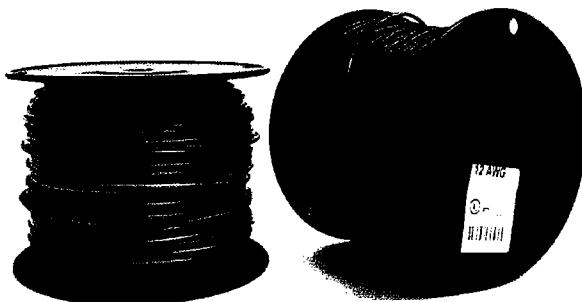
* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

JOHNNY MOP

Contractor grade Pipe lube applicator brush. 12" overall length. 4 1/2" mop head for greater lube absorbency. Acid resistant polypropylene strands. *Professionally preferred.*



Description	Part Number	Case Qty.	List Price (Each)
Johnny Mop	PL204	100	\$2.40

ACCESSORIES**TRACER WIRE**

Used in applications requiring power or tracing. Also can be used as THHN, MTW, THWN. See Christy's™ website for specifications. 500' rolls.

Description	Part Number	Case Qty.	List Price (Each)
#10 Blue Solid THHN/THWN	10BLT500	1	Call
#10 Black Solid THHN/THWN	10BT500	1	Call
#10 Green Solid THHN/THWN	10GT500	1	Call
#10 Yellow Solid THHN/THWN	10YT500	1	Call
#12 Blue Solid THHN/THWN	12BLT500	1	Call
#12 Black Solid THHN/THWN	12BT500	1	Call
#12 Yellow Solid THHN/THWN	12YT500	1	Call
#14 Blue Solid THHN/THWN	14BLT500	1	Call
#8 Blue Stranded THHN/THWN	8BLS500	1	Call
#10 Blue Stranded THHN/THWN	10BLST500	1	Call
#10 Black Stranded THHN/THWN	10BST500	1	Call
#12 Blue Stranded THHN/THWN	12BLS500	1	Call
#14 Blue Stranded THHN/THWN	14BLST500	1	Call

No prepaid freight allowed for tracer wire.

OTHER TYPES OF WIRE ALSO AVAILABLE.**ENGINEERING TAPE MEASURE**

The engineering tape measure is in inches and tenths of an inch in a chrome plated case. Easy-to-read nylon-coated steel blade with stud markings. Speed lock holds blade firmly. Triple riveted end hook with shock absorber.

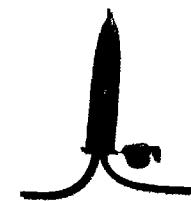
Description	Part Number	Case Qty.	List Price (Each)
1" x 25'	425IE	10	\$19.89*

BARE COPPER WIRE - 500' ROLLS

Description	Part Number	Case Qty.	List Price (Each)
#8 Bare Copper Wire	8BC500	1	Call
#10 Bare Solid THHN/THWN	10BC500	1	Call
#12 Bare Solid THHN/THWN	12BC500	1	Call

**SPLIT BOLT CONNECTORS**

Description	Part Number	Case Qty.	List Price (Each)
8 Sol - Split Bolt Connector	S4	100	\$26.00
16 Sol - Split Bolt Connector	S8	100	\$3.90

3M™ SPLICE KITS

The 3M™ Direct Bury Splice Kit effectively splices and moisture seals two or more conductors in a pigtail application for direct burial. Constructed with a polypropylene tube, flame retardant PVC insulator, and steel spring.

Description	Part Number	Case Qty.	List Price (Each)
3M™ Direct Bury Splice Kit	DBR6	100/1	\$3.41

OD TAPE MEASURES UP TO 72"

The 1/4" x 10' OD Tape Measure is designed for measuring pipe diameters. Polished chrome case. Zero falls in the same place on each side of the blade. Conversion from diameter to circumference by simply turning the blade over. Shows diameter to 1/64". Easy-to-read bold graduations on yellow background. Spring action returns blade to case.

Description	Part Number	Case Qty.	List Price (Each)
OD Tape Measure	TC-OD1410	1	\$9.95*
OD Tape Measure - Private Label	TC-OD1410-PL	1	\$9.95*

* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

ACCESSORIES

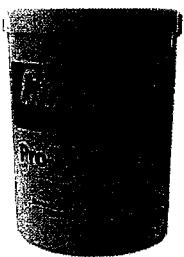
CHRISTY'S™ SILVER CLOTH DUCT TAPE



8 mil. silver cloth duct tape, individually shrink wrapped.

Description	Part Number	Case Qty.	List Price (Each)
2" x 60 Yd.	TA-33-DT398	24	\$7.97*

CHRISTY'S™ PRO-W-WIPES™ HAND CLEANER TOWELS

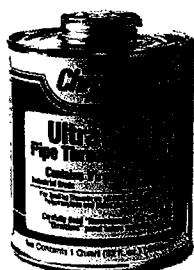


Christy's™ Pro-W-Wipes™ are heavy-duty, pre-moistened towels with pumice scrubbing power. They work fast to loosen, dissolve and absorb dirt, grease and solvents using deep cleaning scrubbers that remove embedded grime easily.

These shop size, durable towels quickly remove tough-to-clean substances including: lubricants, oils, ink, tar, wax, caulk, sealants, epoxy, heavy grease, adhesives and solvent cements. 60 towels per dispenser.

Description	Part Number	Case Qty.	List Price (Each)
Pro-W-Wipes	RH-PW1	6	See Solvents*

CHRISTY'S™ ULTRA SEAL™ THREAD SEALANT

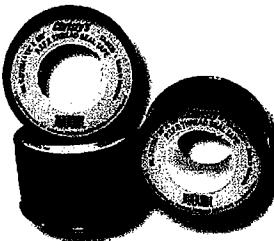


Smooth, white, non-hardening, soft-set virgin Teflon® paste for all threaded metal and plastic piping applications carrying water, air, steam, petroleum, gases and many chemicals. Contains an anti-galling compound for easy disassembly. Sealing capacity to 3,000 PSI gases and 10,000 PSI liquids. Grit-free. Meets Federal Specification TT-S-1732.



Description	Part Number	Case Qty.	List Price (Each)
1/4 Pint	RH-ULTR-QP	24	See Solvents*
1/2 Pint	RH-ULTR-HP	24	See Solvents*
Pint	RH-ULTR-PT	12	See Solvents*
Quart	RH-ULTR-QT	12	See Solvents*

CHRISTY'S™ PTFE TAPE



Christy's™ PTFE Tape meets Federal Specification T-27730A and is FDA and AGA Grade. Made from virgin PTFE particles, this PTFE Tape has great stretch/tear properties and is contractor quality. 3.5 mil. thick, .40 density.

Description	Part Number	Case Qty.	List Price (Each)
1/2" x 260"	TA-S260	100/500	\$.40*
1/2" x 520"	TA-S520	100/500	\$.54*
1/2" x 610'	TA-S610	100/500	\$.60*
3/4" x 260"	TA-SW260	50/350	\$.75*
3/4" x 520"	TA-SW520	70/350	\$.83*
1" x 520"	TA-SX520	50/250	\$1.43*

CHRISTY'S™ PTFE TAPE MERCHANDISER



Christy's™ PTFE Tape is available in 100 roll dispensers for 1/2" x 520" and 3/4" x 520". Call Christy's™ for details.

Description	Part Number	Case Qty.	List Price (Each)
1/2" x 520" PTFE Tape - 100 Roll Dispenser	TA-S520DR	1	\$54.00*
3/4" x 520" PTFE Tape - 100 Roll Dispenser	TA-SW520DR	1	\$83.00*

* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

* Solvents pricing is available from Christy's™ Solvents & Sealants Catalog and is subject to change. Please call to confirm pricing.

ACCESSORIES

CHRISTY'S™ PIPEWRAP TAPE



Christy's™ Pipewrap Tape is printed and IAPMO/UPC listed. Use with Christy's™ Prime-It™ Pipe Wrap Primer (see below). Individually shrink wrapped. For thicker mil tape, see our cold applied AWWA C-209 tapes.

Call for
Pallet Pricing.



Description	Part Number	Case Qty.	Pallet Qty.	List Price (Each)
1" x 100', 10 mil.	TA-33-PW11	72	3744	\$2.92*
1" x 100', 20 mil.	TA-33-PW12	48	2496	\$6.62*
2" x 100', 10 mil.	TA-33-PW21	36	1872	\$5.39*
2" x 100', 20 mil.	TA-33-PW22	24	1248	\$10.45*
4" x 100', 10 mil.	TA-33-PW41	12	624	\$11.92*
4" x 100', 20 mil.	TA-33-PW42	12	624	\$23.91*

CHRISTY'S™ PRIME-IT™ PIPEWRAP PRIMER



Christy's™ Prime-It™ is a synthetic rubber based adhesive designed to bond a variety of porous and non-porous surfaces, specifically to adhere pipe wrap to pipe. IAPMO/UPC listed.



Description	Part Number	Case Qty.	List Price (Each)
Pint	RH-PRIM-PT	12	See Solvents*
Quart	RH-PRIM-QT	12	See Solvents*
Gallon	RH-PRIM-1	6	See Solvents*

CHRISTY'S™ PRO-LUBE™ PIPE JOINT LUBRICANT



Christy's™ Pro-Lube™ is an all purpose pipe joint lubricant for joining gasketed pipe and fittings with rubber, synthetic rubber, or plastic gaskets. Water soluble and non-toxic. Packed in plastic tubs.



Description	Part Number	Case Qty.	List Price (Each)
Quart	RH-PRO-QT	12	See Solvents*
Gallon	RH-PRO-GL	4	See Solvents*
5 Gallons	RH-PRO-5	1	See Solvents*

CHRISTY'S™ SLICK-WRAP™ PIPE AND HOSE REPAIR KIT



Christy's™ Slick-Wrap™ is a water activated fiberglass tape that makes repairs to pipe and hose, no tools required.

Pressure tested to 300+ PSI, Slick-Wrap™ will repair any surface including PVC, copper, galvanized, clay pipe, metal, rubber, fiberglass and wood. Slick-Wrap™ will work in many applications including pumps, plumbing, valves, pools, spas, automotive, industrial, residential, commercial and golf course maintenance.

Slick-Wrap™ can be used for all types of water including fresh and salt water, and can be used in temperatures from -60°F to 800°F. Line pressure must be off during installation.

Christy's™ Slick-Wrap™ comes in a clear hang pack. All master cases include counter display merchandiser boxes.

Description	Part Number	Case Qty.	List Price (Each)
2" x 60" - Up to 2" Pipe	PW260	12	See Solvents*
3" x 108" - Up to 4" Pipe	PW3108	12	See Solvents*

CHRISTY'S™ HANDI-PUMP II & III



Christy's™ Handi-Pump uses syringe action to provide suction and plunging power. Self lubricating and self-priming, the Handi-Pump is ideal for toilets, valve boxes, meter boxes, spas and pools, bilges, sprinkler heads, and boats.

All PVC plastic quality construction that will not corrode. Double U-cup seal system. Handi-Pumps are bagged and provided with a hang tag.

Description	Part Number	Case Qty.	List Price (Each)
12" Body - 18 oz capacity per stroke	HP-2	1	\$36.67*
22" Body - 36 oz capacity per stroke	HP-3	1	\$50.00*

* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

* Solvents pricing is available from Christy's™ Solvents & Sealants Catalog and is subject to change. Please call to confirm pricing.

HAND TOOL ACCESSORIES**CHRISTY'S™ TIGER PAW GLOVES**

Tiger Paw™ gloves are lightweight and breathable. They work well in plumbing, landscape and irrigation applications.

CHRISTY'S™ TRADE PRO GLOVES

Trade Pro™ gloves are the ultimate performance glove designed to endure demanding environments such as demolition, hauling heavy materials, plumbing, drywall and hand tools.



Description	Part Number	Case Qty.	List Price (Each)
Medium	TC-1956M	12/144	\$25.60*
Large	TC-1956L	12/144	\$25.60*
X-Large	TC-1956XL	12/144	\$25.60*

CHRISTY'S™ CRAFT PRO GLOVES

Craft Pro™ gloves are designed to allow natural dexterity of three fingers while providing adequate protection from abrasion. Perfect for use with power tools, carpentry and machine operations.



Description	Part Number	Case Qty.	List Price (Each)
Medium	TC-1959M	12/144	\$25.60*
Large	TC-1959L	12/144	\$25.60*
X-Large	TC-1959XL	12/144	\$25.60*

ATLAS™ NATURAL LATEX GLOVES

Tight weave cotton string knit with palm and fingers coated in natural blue latex. Highly durable with excellent wet grip. Open back for superior ventilation. Carded.

Description	Part Number	Case Qty.	List Price (Each)
Medium	9680-M	12/144	\$6.40*
Large	9680-L	12/144	\$6.40*
X-Large	9680-XL	12/144	\$6.40*

Description	Part Number	Case Qty.	List Price (Each)
Medium	TC-1952M	12/144	\$27.95*
Large	TC-1952L	12/144	\$27.95*
X-Large	TC-1952XL	12/144	\$27.95*

CHRISTY'S™ GRIP PRO GLOVES

Grip Pro™ gloves provide superior grip, dexterity and comfort during extended wear. Ideal for carrying soil pipe and sprinkler/pipe installation.

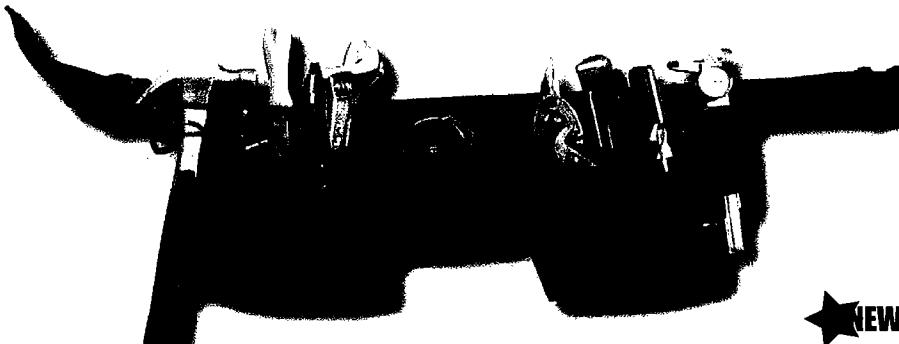
Description	Part Number	Case Qty.	List Price (Each)
Medium	TC-1960M	12/144	\$25.60*
Large	TC-1960L	12/144	\$25.60*
X-Large	TC-1960XL	12/144	\$25.60*

LATEX DISPOSABLE GLOVES

Ideal for hand protection during solvent cementing. 100 pieces per box (box quantity only). Powder free.

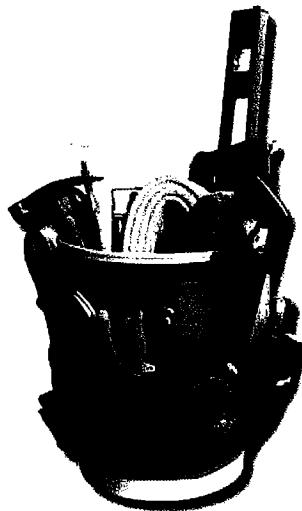
Description	Part Number	Case Qty.	List Price (Each)
Medium	2800-M	10	\$14.54*
Large	2800-L	10	\$14.54*
X-Large	2800-XL	10	\$14.54*

* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

HAND TOOL ACCESSORIES**CHRISTY'S™ 12 POCKET TOOL BELT**

Christy's 12 Pocket Tool Belt. Tools sold separately.

Christy's™ 12 Pocket Tool Belt contains four main nail and tool pockets, six smaller pockets for pliers and pencils, and a swinging hammer holder. Constructed of 600D polyester with three layers of polyester material to reinforce the bottom and corners of the main pockets. The belt is 2" wide with a nylon buckle, and fits waist sizes 29" to 46".

CHRISTY'S™ 26 POCKET BUCKET APRON

Christy's 26 Pocket Bucket Apron. Tools sold separately.

Christy's™ 26 Pocket Bucket Apron is easy to use and installs on a standard 5-gallon bucket. It keeps tools organized and readily accessible. Ideal for job sites.

Description	Part Number	Case Qty.	List Price (Each)
Bucket Apron	TC-BKTAPR	24	\$14.44*

5 GALLON BUCKET

High density polyethylene utility bucket with convenient metal handle.

Description	Part Number	Case Qty.	List Price (Each)
Bucket	5GBKTT	1	\$8.76*

* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

HAND TOOL ACCESSORIES**CHRISTY'S™ RED RAZOR™**

Heavy duty, industrial quality, ratchet action to 1-5/8" pipe size capacity. A special blade design gives a sharp, light, clean and even quicker cut. The blade is heat treated SK-5 carbon steel with chrome plating. Coated handles. Includes vinyl hang pouch.

Description	Part Number	Case Qty.	List Price (Each)
Pipe Cutter to 1-5/8"	TC.PCRR.158	5/30	\$55.00*
Replacement Blade for TC.PCRR.158	TC.PCRR.158.BD	1	\$19.96*

CHRISTY'S™ RED RAZOR MAX CUT™

The Red Razor Max Cut™ cuts up to 2" PVC and polyethylene pipe. Ratchet action allows for easy and repeated cutting. It is impulse SK-5 high carbon steel with chrome plating. Coated handles. Includes vinyl hang pouch. Replacement blades are available.

Description	Part Number	Case Qty.	List Price (Each)
Pipe Cutter to 2"	TC.PCRR.2	5/20	\$114.93*
Replacement Blade for TC.PCRR.2	TC.PCRR.2.BD	1	\$52.22*

HEAVY DUTY PIPE CUTTER

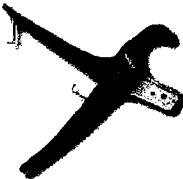
1/2" to 2" capacity. Steel alloy cutting wheels. Ideal for galvanized and copper pipe. Boxed.

Description	Part Number	Case Qty.	List Price (Each)
Cutter to 2"	#2	1	\$47.15*

ECONOMY STANDARD TUBING CUTTER

1/8" to 1-1/8" capacity. Heavy duty cast aluminum housing with steel alloy cutting wheel and rollers. Carded

Description	Part Number	Case Qty.	List Price (Each)
Standard Tubing Cutter	39-920	12	\$7.65*

CHRISTY'S™ PIPE & HOSE CUTTERS

Christy's™ spring loaded pipe and hose cutter cuts polyethylene hose, PVC hose and P.B. through 1-3/8". The easy grip handle makes multiple cutting jobs simple. The cutter comes with a reversible stainless steel blade for clean and true cuts. Because the cutter produces

no sawdust it eliminates deburring and the possibility of contaminating the pipe. Carded.

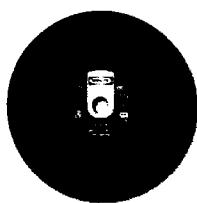
Description	Part Number	Case Qty.	List Price (Each)
Pipe & Tubing Cutter to 1-3/8"	TC.PCSL.138	12	\$13.22*
Replacement Blade for TC.PCSL.138	TC.PCSL.138.BD	1	\$6.56*

LENOX® HOLESAWS

Bi metal construction with M-2 high speed steel cutting edge. Positive rake tooth and Vari-Tooth design. Resists tooth strippage. Eliminates the need for a torque driving plate. 1-1/2" cutting depth. Can cut through a 2" x 4". Individually boxed.

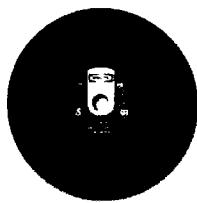
Description	Part Number	Case Qty.	List Price (Each)
7/8"	14L	1	\$13.63*
1"	16L	1	\$14.47*
1-1/8"	18L	1	\$14.47*
1-1/4"	20L	1	\$14.47*
1-3/8"	22L	1	\$15.25*
1-1/2"	24L	1	\$15.25*
1-5/8"	26L	1	\$15.25*
1-3/4"	28L	1	\$19.19*
1-7/8"	30L	1	\$19.19*
2"	32L	1	\$18.62*
2-1/4"	36L	1	\$23.18*
2-1/2"	40L	1	\$24.94*
3"	48L	1	\$25.81*
3-1/2"	56L	1	\$26.56*
4"	64L	1	\$39.06*
4-1/2"	72L	1	\$76.58*

* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

HAND TOOL ACCESSORIES**METAL BLADES**

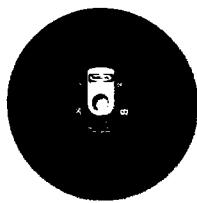
For use with chop saws using 1" or 20 mm arbors.
Made from aluminum oxide.

Description	Part Number	Case Qty.	List Price (Each)
7" X 5/8" Arbor	7MET	10/30	\$3.62*
12" X 1" Arbor	12MET	10/30	\$9.59*
12" x 20 mm Arbor	12MET-MM	10/30	\$9.59*
14" x 1" Arbor	14MET	10/30	\$14.44*
14" x 20 mm Arbor	14MET-MM	10/30	\$14.44*

MASONRY BLADES

For use with chop saws using 1" or 20 mm arbors.
Made from silicon carbide.

Description	Part Number	Case Qty.	List Price (Each)
7" X 5/8" Arbor	7MAS	10/30	\$3.62*
12" X 1" Arbor	12MAS	10/30	\$9.59*
12" x 20 mm Arbor	12MAS-MM	10/30	\$9.59*
14" x 1" Arbor	14MAS	10/30	\$15.16*
14" x 20 mm Arbor	14MAS-MM	10/30	\$15.16*

DUCTILE IRON BLADES

For use with chop saws using 1" or 20 mm arbors.
Made from silicon carbide.

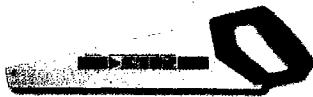
Description	Part Number	Case Qty.	List Price (Each)
12" X 1" Arbor	12DI	10/30	\$9.59*
12" x 20 mm Arbor	12DI-MM	10/30	\$9.59*
14" x 1" Arbor	14DI	10/30	\$15.78*
14" x 20 mm Arbor	14DI-MM	10/30	\$15.78*

ARBOR ADAPTER

Insert converts 1" arbor to 20 mm arbor.

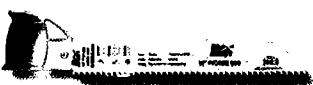
Description	Part Number	Case Qty.	List Price (Each)
1" to 20 mm Arbor Adapter	AACOW	1	\$1.17*

* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

HAND TOOL ACCESSORIES**CHRISTY'S™ 14" PVC/ABS TOOL BOX SAW**

This 14" saw has very fine teeth for smooth sawing. It is ideal for a variety of materials, including PVC, ABS, wood, aluminum and drain pipe. The TC-300 has a tempered steel blade that is durable and long lasting. This is one saw for all applications.

Description	Part Number	Case Qty.	List Price (Each)
14" Saw	TC-300	4/48	\$15.05*

CHRISTY'S™ 12" & 18" PVC/ABS SAWS

12" and 18" aluminum handle saws. Useful on plywood, asbestos, plastics, hardboard, metals, wood and plastic pipe.

Description	Part Number	Case Qty.	List Price (Each)
12" Saw	HS433-12	12	\$16.48*
18" Saw	HS433-18	12	\$18.03*
Replacement Blade - 12"	HS433BD-12	6/24	\$6.84*
Replacement Blade - 18"	HS433BD-18	6/24	\$7.44*

PVC/ABS PLASTIC HANDSAWS

One piece carbon steel construction handle. Spring tempered blade back. Precision milled teeth. Cuts large diameter pipe better than a hacksaw. Single screw blade attachment. Ideal for utility applications.

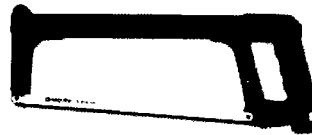


Description	Part Number	Case Qty.	List Price (Each)
12" Handsaw	HSF-120	5	\$29.94*
18" Handsaw	HSF-180	5	\$33.29*
12" Blade Only for the HSF-120	HSB-120	5	\$15.84*
18" Blade Only for the HSF-180	HSB-180	5	\$19.75*

CHRISTY'S™ VIPER HACKSAW BLADES

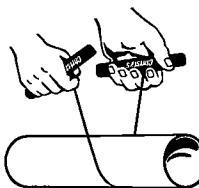
Bi-metal construction with spring steel back. These industrial quality blades are shatter/shock resistant and resistant to high heat. 10 per vinyl hang pack.

Description	Part Number	Case Qty.	List Price (Each)
12" x 1/2" - 18TPI	TC1218	10/100	\$1.93*

CHRISTY'S™ HIGH TENSION HACKSAW

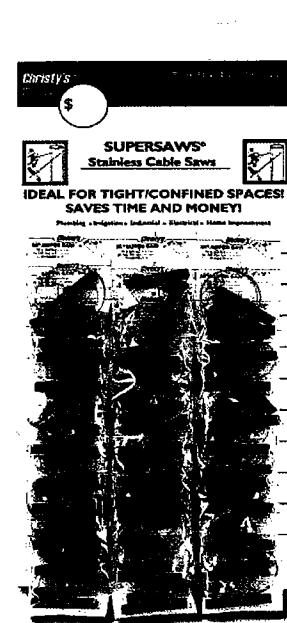
High tension durable hacksaw with rubber grip handle. Supplied with 12 x 18 TPI bi-metal blade. Cuts on both 45° and 90°. 12 piece merchandiser.

Description	Part Number	Case Qty.	List Price (Each)
Hacksaw	225X-2	12/24	\$20.49*

**CHRISTY'S™ SUPERSAW
STAINLESS CABLE SAWS - ERGO "T" HANDLE**

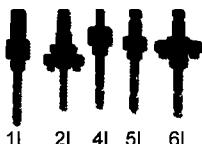
SuperSaws are made from 7 x 7-3/16" domestic stainless steel aircraft cable, aluminum cable crimps, and heavy duty ergonomic "T" handles. Ideal for any situation where cutting PVC pipe in a confined space is required. Individually bagged with header card.

Description	Part Number	Case Qty.	List Price (Each)
36" SuperSaw	SCS-36	12	\$8.44*
48" SuperSaw	SCS-48	12	\$9.44*
36" SuperSaw Merchandiser 30 Piece Board	SCS-36MD30	1	\$253.20*
36" SuperSaw Merchandiser 2 - 30 Piece Boards	SCS-36MD60	2	\$506.40*



The SuperSaw Merchandiser Board holds 30 of our SCS-36 36" stainless cable saws. Pegboard or wall mounted, it is ideal to display where you have walk-in traffic.

* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

HAND TOOL ACCESSORIES**LENOX® HOLE SAW ARBORS**

Durable carbide tips provide extra long life. Large relief area allows debris to move from the cutting edge. Wide variety of adaptors for most tapping machines. Drill motor adaptors for dry taps. Superior quality pilot drills available. All cutters are 1/8" under size for use with any valve.



AA1

Description	Part Number	Case Qty.	List Price (Each)
9L - 19L, 1/2" Chuck Size	1L	1	\$19.66*
20L - 96L, 1/2" Chuck Size	2L	1	\$31.79*
9L - 19L, 1/4" Chuck Size	4L	1	\$13.49*
9L - 19L, 3/8" Chuck Size	5L	1	\$20.27*
20L - 96L, 3/8" Chuck Size	6L	1	\$30.92*
Arbor Adaptor, Carded	AA1	5	\$5.17*

LENOX® HOLE SAW EXTENSIONS

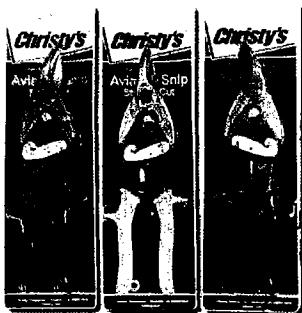
Holesaw Extensions are packaged in a vinyl pouch.

Description	Part Number	Case Qty.	List Price (Each)
12" Extension with 1/2" Chuck, Arbors 1L and 2L	12X	1	\$22.61*
5-1/2" Extension with 1/2" Chuck, Arbors 1L and 2L	55X	1	\$21.89*

LENOX® PILOT DRILLS

Pilot Drills are packaged in a vinyl pouch.

Description	Part Number	Case Qty.	List Price (Each)
Fits 1/4" Drill Chuck for 1L, 2L & 4L	4321	6	\$6.75*

CHRISTY'S® AVIATION SNIPS

Drop forged hardened and tempered alloy steel blades. Vinyl grips. Capacity to 18 gauge sheet metal. Carded.

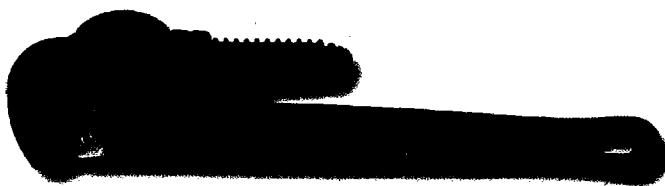
Description	Part Number	Case Qty.	List Price (Each)
Left Cut - Red Handle	TA.AS.102*	6	\$15.44*
Right Cut - Green Handle	TA.AS.101*	6	\$15.44*
Straight Cut - Yellow Handle	TA.AS.103*	6	\$15.44*

NO HUB TORQUE WRENCH

5/16" hex socket for tightening nut on worm drive clamps. Hang pack.

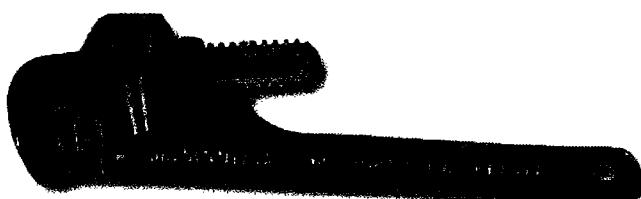
Description	Part Number	Case Qty.	List Price (Each)
No Hub Torque Wrench	NH7020	6	\$22.79*

* Pricing shown is taken from Christy's® Handtool Catalog and is subject to change. Please call to confirm pricing.

HAND TOOL ACCESSORIES**CHRISTY'S™ HEAVY DUTY PIPE WRENCHES**

The Christy's™ line of steel pipe wrenches are the highest quality available. Each wrench has a monoblock cast iron handle. The lower jaw is seated to prevent load on the pin. The upper jaw is forged and heat treated.

Description	Part Number	Case Qty.	List Price (Each)
10"	TC-SP10	6	\$26.33*
14"	TC-SP14	6	\$34.83*
18"	TC-SP18	3	\$49.51*
24"	TC-SP24	1	\$78.09*
36"	TC-SP36	1	\$173.77*
10" Offset Wrench	TC-SPOS10	6	\$34.01*
14" Offset Wrench	TC-SPOS14	6	\$46.28*

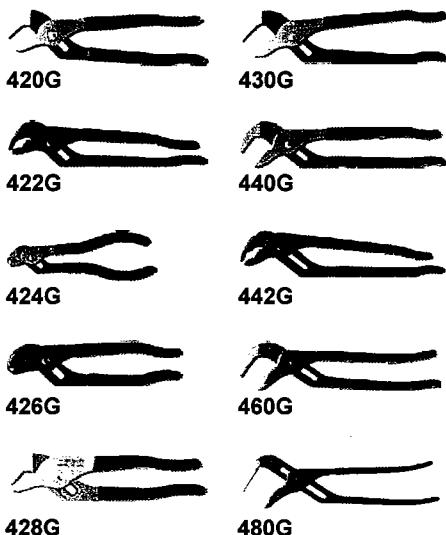
CHRISTY'S™ ALUMINUM PIPE WRENCHES

The Christy's™ line of aluminum pipe wrenches are made of heat treated lightweight aluminum. The forged jaw provides hardness for the tenacity of the teeth.

Description	Part Number	Case Qty.	List Price (Each)
10"	TC-AP10	6	\$43.50*
14"	TC-AP14	6	\$56.95*
18"	TC-AP18	3	\$76.87*
24"	TC-AP24	1	\$111.15*
36"	TC-AP36	1	\$213.79*
14" Offset Wrench	TC-APOS14	6	\$88.05*
18" Offset Wrench	TC-APOS18	6	\$124.10*

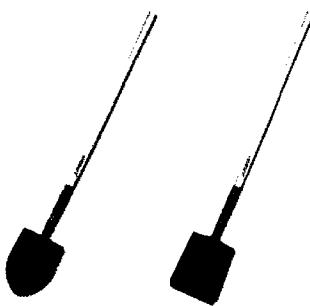
CHANNELLOCK® TONGUE AND GROOVE PLIERS

All Channellock® Tongue and Groove Pliers have dipped handles and are carded.



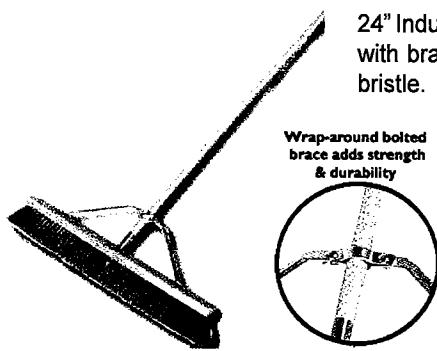
Part Number	Design Style	Length	Adjustments	Capacity	Case Qty.	List Price (Each)
420G	Standard	9-1/2"	5	1-1/2"	5/20	\$23.18*
422G	Curved Jaw	9-1/2"	5	1-1/2"	5/20	\$23.64*
424G	Mini	4-1/2"	3	7/8"	5/20	\$22.47*
426G	Small	6-1/2"	5	7/8"	5/20	\$19.59*
428G	Safe-T-Stop™	8"	4	1-1/2"	5/20	\$22.47*
430G	Standard	10"	7	2"	5/20	\$24.11*
440G	Standard	12"	7	2-1/4"	5/20	\$26.42*
442G	Curved Jaw	12"	7	2-1/4"	5/20	\$26.42*
460G	Standard	16"	8	4-1/4"	2/20	\$45.11*
480G	Standard	20-1/4"	12	5-1/2"	2/20	\$87.51*

* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

HAND TOOL ACCESSORIES**RAZORBACK SHOVELS**

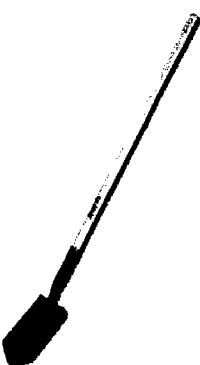
Contractor duty, open-back shovel with 48" white ash handle from Union.

Description	Part Number	Case Qty.	List Price (Each)
Round Shovel	R248	6	\$46.64*
Square Shovel	S248	6	\$46.64*

24" INDUSTRIAL/CONTRACTOR BROOM

24" Industrial/Contractor Broom with brace and 4" heavy green bristle.

Description	Part Number	Case Qty.	List Price (Each)
24" Broom	WBB24	4	\$49.58*

CHRISTY'S™ WOOD TRENCHING SHOVEL WITH POWER STEP - COLOR CODED

Formed steel shovel neck with 48" northern ash handle.

Description	Part Number	Case Qty.	List Price (Each)
3" - Blue	CH3TS	6	\$33.82*
4" - Orange	CH4TS	6	\$33.82*
5" - Red	CH5TS	6	\$33.82*
6" - Green	CH6TS	6	\$33.82*

CHRISTY'S™ STRAP-IT UTILITY TIE DOWNS

Christy's™ Strap-It Utility Tie Down Straps use a high-strength poly strapping with a rustproof buckle. Color coded with a 600 lb. capacity. Ideal for securing loads. Individually bar coded and labeled.

Description	Part Number	Case Qty.	List Price (Each)
3' - Black	ST3	24	\$5.82*
4' - Red	ST4	24	\$6.40*
6' - Yellow	ST6	24	\$7.36*
8' - Green	ST8	24	\$8.16*
10' - Blue	ST10	24	\$9.20*
12' - Black	ST12	24	\$10.27*
30 Piece Merchandiser Box - 5 each 3' - 12'	ST-MIXED-KIT	1	\$236.24*

Strap-It Tie Downs are also available in a 30 piece merchandiser box that contains 5 each of the ST3, ST4, ST6, ST8, ST10 and the ST12. The top folds over for protection in shipping and is easily pulled back for product display.



* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

CHRISTY'S™ STRIKING TOOLS**SLEDGES & MALLETS**

Hardened and tempered fully polished head. Hickory handle.

FIBERGLASS HANDLE SLEDGEHAMMER

Hardened and tempered fully polished forged steel head. Fiberglass handle.

Description	Part Number	Case Qty.	List Price (Each)
4 lb. Sledge, 15" Handle	62-324	2	\$21.11*
6 lb. Sledge, 36" Handle	62-326	2	\$30.00*
8 lb. Sledge, 36" Handle	62-328	2	\$33.22*
10 lb. Sledge, 36" Handle	62-330	2	\$37.67*
12 lb. Sledge, 36" Handle	62-332	2	\$47.78*
16 lb. Sledge, 36" Handle	62-336	2	\$58.89*

Description	Part Number	Case Qty.	List Price (Each)
3 lb. Sledge, 16" Handle	65-163	2	\$20.89*
4 lb. Sledge, 16" Handle	65-164	2	\$21.67*
6 lb. Sledge, 36" Handle	65-166	2	\$28.53*
8 lb. Sledge, 36" Handle	65-168	2	\$43.33*
10 lb. Sledge, 36" Handle	65-170	2	\$50.89*
12 lb. Sledge, 36" Handle	65-172	2	\$55.00*

PICKS & MATTOCKS

Description	Part Number	Case Qty.	List Price (Each)
5 lb. Pick Mattock, Head Only	64-150	6	\$15.00*
5 lb. Pick Mattock/Hickory Handle	64-151	1	\$30.00*
5 lb. Cutter Mattock, Head Only	64-250	6	\$15.00*
5 lb. Cutter Mattock/Hickory Handle	64-251	1	\$30.00*
5 lb. Railroad Pick, Head Only	64-350	6	\$15.00*
5 lb. Railroad Pick/Hickory Handle	64-351	1	\$30.00*
6 lb. Railroad Pick, Head Only	64-360	6	\$16.67*
6 lb. Railroad Pick/Hickory Handle	64-361	1	\$33.22*

REPLACEMENT HANDLES

Description	Part Number	Case Qty.	List Price (Each)
16" Hickory Handle for 2 - 4 lb. Sledge Hammers	69-216	12	\$5.56*
36" Hickory Handle for 6 - 16 lb. Sledge Hammers	69-236	12	\$11.67*
36" Premium Coated Hickory Handle for Picks	69-636	12	\$15.44*
36" Fiberglass Handle for Picks	69-196	12	\$31.73*

* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

ASPHALT TOOLS**FIBERGLASS POSTHOLE DIGGER**

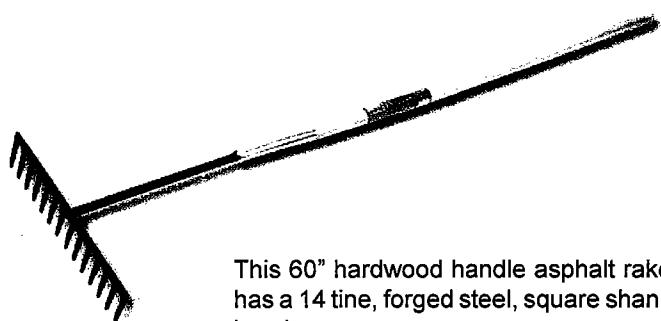
This Fiberglass Posthole Digger provides maximum strength for the most demanding industrial and commercial digging applications. 4' yellow fiberglass handles, 6-1/4" point spread.

Description	Part Number	Case Qty.	List Price (Each)
Fiberglass Digger	PD48	1	\$105.83

FIBERGLASS SUPER SHOVEL

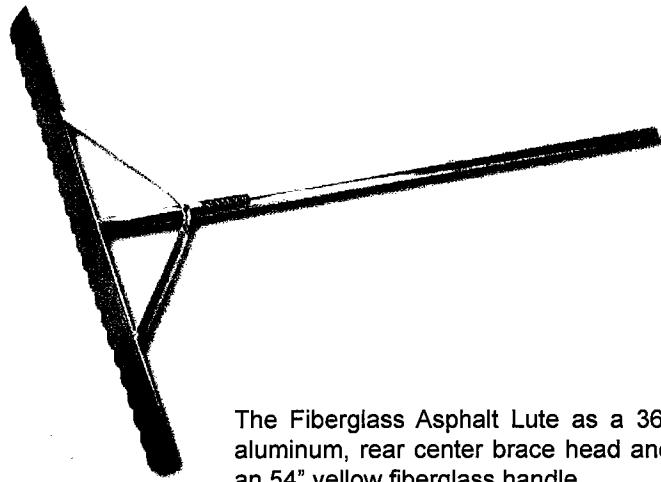
Super Shovel tools have cutting teeth to penetrate hard-packed soils and chop through roots and sod. Front turn step, 48" yellow fiberglass handle, square socket, PermaGrip™ collar, cushion grip, head size 2.

Description	Part Number	Case Qty.	List Price (Each)
48" Shovel	S710	1	\$85.67

60" HARDWOOD ASPHALT RAKE

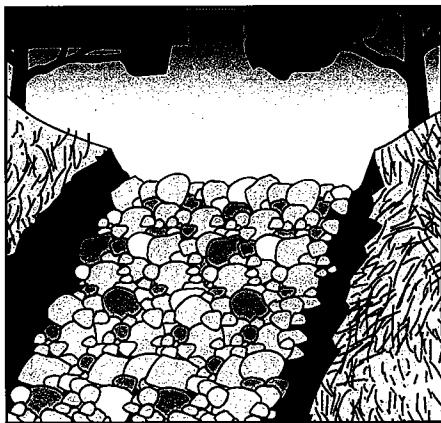
This 60" hardwood handle asphalt rake has a 14 tine, forged steel, square shank head.

Description	Part Number	Case Qty.	List Price (Each)
Asphalt Rake	AR30	1	\$97.38

FIBERGLASS ASPHALT LUTE

The Fiberglass Asphalt Lute as a 36" aluminum, rear center brace head and an 54" yellow fiberglass handle.

Description	Part Number	Case Qty.	List Price (Each)
Lute	AL36	1	\$141.22

CHRISTY'S™ DRAIN/FILTER FABRIC**FILTER FABRIC**

- Use for dewatering and run-off protection
- Use behind retaining walls
- Use around perforated pipe to keep out debris and maintain water flow
- Protect septic drainage systems from silt and native soil backfill

EROSION CONTROL

- Reduce landscape slope runoff
- Keep decorative material in place on slopes or hills

SEPARATION

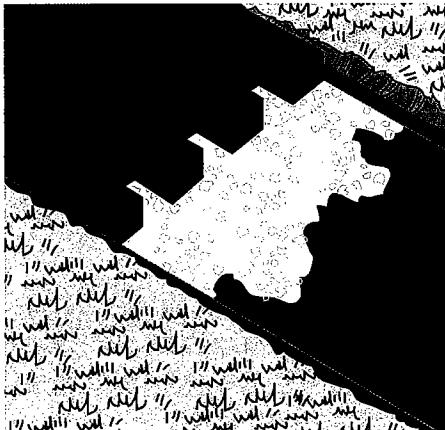
- Creates stable subsoil with less ground movement
- Use under mortar, pavers, crushed rock or mulch paths to increase longevity
- Minimize the effects of rutting, low spots and ground heave on patios and driveways
- Prevent the mixing of soil with the aggregate or sand base

PRODUCT BENEFITS

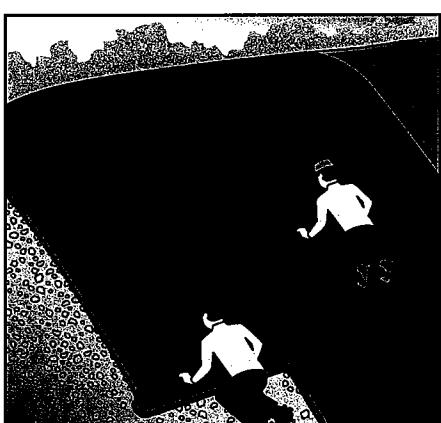
- Professional grade
- High strength, dimensionally stable
- Won't fray or unravel
- Inert to common soil chemicals

PRODUCT USES

- Filter Fabric
- Soil Separation
- Septic and Drainage Systems
- Landscaped Slopes
- Retaining Walls
- Weed Barrier
- Pond Underlayment

Actual Fabric Sample**3.1 oz Nonwoven Needlepunched****3.1 oz Drain and Filter Fabric**

Width	Roll Length	Total Sq. Feet	Part No.	Packaging	List Price (Each)
3'	50'	150	TC-DF3650-3	Bulk	\$20.40
3'	100'	300	TC-DF36100-3	Bulk	\$40.80
3'	300'	900	TC-DF36300-3	Bulk	\$116.11
3'	360'	1080	TC-DF36360-3	Bulk	\$139.31
4'	50'	200	TC-DF4850-3	Bulk	\$27.20
4'	100'	400	TC-DF48100-3	Bulk	\$54.40
4'	300'	1200	TC-DF48300-3	Bulk	\$154.80
4'	360'	1440	TC-DF48360-3	Bulk	\$185.76
5'	100'	500	TC-DF60100-3	Bulk	\$68.00
5'	300'	1500	TC-DF60300-3	Bulk	\$193.51
5'	360'	1800	TC-DF60360-3	Bulk	\$232.20
6'	300'	1800	TC-DF72300-3	Bulk	\$232.20
6'	360'	2160	TC-DF72360-3	Bulk	\$278.64
7.5'	300'	2250	TC-DF90300-3	Bulk	\$290.24
7.5'	360'	2700	TC-DF90360-3	Bulk	\$348.31
12'	300'	3600	TC-DF144300-3	Bulk	\$464.40
12'	360'	4320	TC-DF144360-3	Bulk	\$557.29
12.5'	300'	3750	TC-DF150300-3	Bulk	\$483.75
12.5'	360'	4500	TC-DF150360-3	Bulk	\$580.51
15'	300'	4500	TC-DF180300-3	Bulk	\$580.51
15'	360'	5400	TC-DF180360-3	Bulk	\$696.60

CHRISTY'S™ DRAIN/FILTER FABRIC**4.0 oz Nonwoven Needlepunched
DOT Approved****7.0 oz Nonwoven Needlepunched****4.0 oz Drain and Filter Fabric**

Width	Roll Length	Total Sq. Feet	Part No.	Packaging	List Price (Each)
3'	50'	150	TC-DF3650-4	Bulk	\$20.85
3'	100'	300	TC-DF36100-4	Bulk	\$41.70
3'	360'	1080	TC-DF36360-4	Bulk	\$152.40
4'	50'	200	TC-DF4850-4	Bulk	\$27.80
4'	100'	400	TC-DF48100-4	Bulk	\$55.65
4'	360'	1440	TC-DF48360-4	Bulk	\$203.15
5'	360'	1800	TC-DF60360-4	Bulk	\$273.00
6'	100'	600	TC-DF72100-4	Bulk	\$91.00
6'	360'	2160	TC-DF72360-4	Bulk	\$291.65
7.5'	50'	375	TC-DF9050-4	Bulk	\$52.25
7.5'	100'	750	TC-DF90100-4	Bulk	\$104.24
7.5'	360'	2700	TC-DF90360-4	Bulk	\$364.50
12'	360'	4320	TC-DF144360-4	Bulk	\$583.20
12.5'	360'	4500	TC-DF150360-4	Bulk	\$607.50
15'	360'	5400	TC-DF180360-4	Bulk	\$729.00

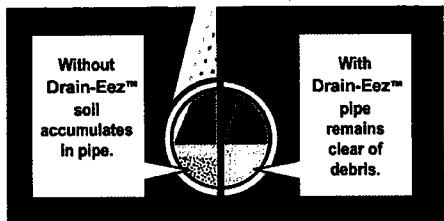
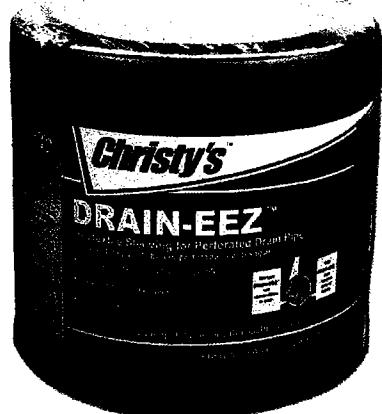
7.0 oz Drain and Filter Fabric

Width	Roll Length	Total Sq. Feet	Part No.	Packaging	List Price (Each)
3'	300'	900	TC-DF36300-7	Bulk	\$190.00
4'	300'	1200	TC-DF48300-7	Bulk	\$253.33
5'	300'	1500	TC-DF60300-7	Bulk	\$316.67
6'	300'	1800	TC-DF72300-7	Bulk	\$380.00
7.5'	300'	2250	TC-DF90300-7	Bulk	\$475.00
12'	300'	3600	TC-DF144300-7	Bulk	\$760.00
12.5'	300'	3750	TC-DF150300-7	Bulk	\$750.00
15'	300'	4500	TC-DF180300-7	Bulk	\$900.00

8.0 oz Drain and Filter Fabric

Width	Roll Length	Total Sq. Feet	Part No.	Packaging	List Price (Each)
12.5'	360'	4500	TC-DF150360-8	Bulk	\$950.00
15'	300'	4500	TC-DF180300-8	Bulk	\$950.00

Product Specifications Are Available. Please Call.

CHRISTY'S™ DRAIN/FILTER FABRIC**CHRISTY'S™ DRAIN-EEZ™ PERFORATED PIPE SLEEVING SOCK - 3.1 oz**

Drain-Eez™ encases drain pipe and prevents small particle/ soil drain system contamination and clogging.

Part Number	Size	Packaging	List Price (Each)
TC-DE310	3" x 10' - for 3" nominal pipe	Each	\$7.52
TC-DE3100	3" x 100' - for 3" nominal pipe	Each	\$36.13
TC-DE410	4" x 10' - for 4" nominal pipe	Each	\$9.13
TC-DE4100	4" x 100' - for 4" nominal pipe	Each	\$38.20
TC-DE6100	6" x 100' - for 6" nominal pipe	Each	\$50.75

PRODUCT APPLICATIONS

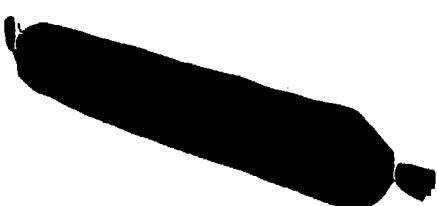
- Sleeve perforated drain pipe to protect drainage systems from silt and native backfill
- Keep out debris. Maintain water flow
- Confine the need for controlled gradation granular fill material
- Allows the use of higher permeability drainage media
- Prevent the mixing of soil with the aggregate or sand base

PRODUCT BENEFITS

- Easy to use and install
- High strength, dimensionally stable material formulated to resist UV deterioration
- Inert to commonly occurring soil chemicals

DRAIN-EEZ™ APPLICATIONS

- PVC Drain Pipe - ASTM-D2729
- PVC SDR35 Pipe - ASTM-D3034
- PVC Schedule 40 Pipe - ASTM-D1785
- HDPE Corrugated Pipe - ASTM-F405
- HDPE Smoothwall Pipe - ASTM-F810
- HDPE Dual Wall Pipe - AASHTO-M252

CHRISTY'S™ GRAVEL BAGS

Part No.	Size	Packaging	List Price (Each)
TC-GB0848-7	8" x 48"	Bulk	\$2.88
TC-GB1248-7	12" x 48"	Bulk	\$3.59
TC-GB1426-7	14" x 26"	Bulk	\$3.16
TC-GB1624-4	16" x 24"	Bulk	\$3.16
TC-GB3030-7	30" x 30"	Bulk	\$3.59

PRODUCT APPLICATIONS

- Alternative to conventional sand and gravel bags for dewatering or run-off protection
- Fill with various media (sand to gravel) to meet specific project needs

PRODUCT BENEFITS

- High strength, dimensionally stable material formulated to resist UV deterioration
- Inert to commonly occurring soil chemicals
- Long lasting, non-biodegradable, won't rot or mildew

DEWATERING BAGS**DEWATERING FILTER BAGS**

Dewatering Filter Bags

Our Dewatering Filter Bags are effective in collecting sediment from dewatering operations as sediment-laden water is pumped into the bag. The 8 oz nonwoven needle-punched geotextile is strong and permeable and provides up to 100 gpm/ft² water flow.

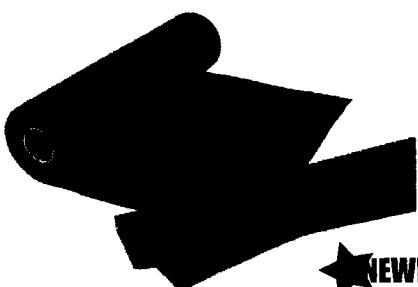
Simply place the filter bag on a level area (the bags can roll down slopes), insert the discharge hose from the pump into the bag and secure the connection with a clamp or tie wire. These filter bags can handle most applications utilizing a 2" to 6" discharge hose. Note that high pumping rates and high sediment loads can cause the bag to burst.

Description	Part Number	Case Qty.	List Price (Each)
2' x 13' for 1" discharge hose	TC-DWB213	1	\$53.69
10' x 15' for 2" discharge hose	TC-DWB1015	1	\$176.67
15' x 20' for 3" discharge hose	TC-DWB1520	1	\$285.56
15' x 25' for 4" discharge hose	TC-DWB1525	1	\$353.33
15' x 35' for 6" discharge hose	TC-DWB1535	1	\$442.22

**SEDIMENT CONTROL FILTER BAGS**

Fill these Erosion Control Filter Bags with aggregate and place in run-off to trap sediment and filter water. Listed on WI D.O.T. P.A.L.

Description	Part Number	Case Qty.	List Price (Each)
12" x 22" with Draw Tie	TC-SCFB1222W	500	\$2.20
16" x 30" with Draw Tie	TC-SCFB1630W	500	\$2.54
16" x 30" (no Draw Tie)	TC-SCFB1630	500	\$2.50
17" x 30" (no Draw Tie)	TC-SCFB1730	500	\$2.54

**PRIVACY SCREEN**

Our Privacy Screen restricts visual intrusion and passerby attraction and conceals unsightly areas. Use at construction sites, parks & recreation, retention areas, for highway departments and more. Available in many sizes with or without button holes.



Description	Part Number	Case Qty.	List Price (Each)
44" x 150' Economy Green	TC-PSEG44150	1	\$235.56
68" x 150' Economy Green	TC-PSEG-68150	1	\$306.67
92" x 150' Economy Green	TC-PSEG-92150	1	\$366.67
48" x 150' Green with Button Holes	TC-PSGH48150	1	\$233.33
72" x 150' Green with Button Holes	TC-PSGH72150	1	\$293.33
96" x 150' Green with Button Holes	TC-PSGH96150	1	\$377.78

CLIP-ITS INSTANT PLASTIC GROMMETS

Clip-Its Instant Plastic Grommets are constructed of high impact plastic. They're versatile, strong and easy to use. Great for privacy screen, shade cloth, tarps, all knitted and mesh fabrics.

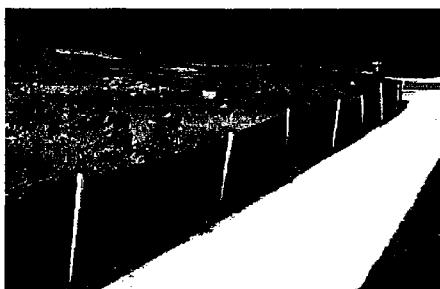
Description	Part Number	Case Qty.	List Price (Each)
Clip-Its Instant Grommets	TC.CLIP	800	\$.80



BARRIER FENCING**EZ POCKET-NET FENCE**

A Christy's™ exclusive, the EZ Pocket-Net Fence has pockets located in the material every three feet, making it easy to install and maintain. For a secure fence that doesn't sag, posts are inserted into pockets and caps are used to avoid slippage. Zip ties may be added for additional stability if being used as a snow fence or in a windy environment. The EZ Pocket-Net Fence is available in orange and the kit includes plastic caps and sleeves. **Posts are not included.** We recommend using t-posts, rebar, or stakes.

Description	Part Number	Case Qty.	List Price (Each)
4' x 50'	PNFO-0450	1	\$65.22
4' x 100'	PNFO-04100	1	\$110.16
4' x 150'	PNFO-04150	1	\$160.56

BLACK SILT EROSION FENCING

Our Silt Fencing is a temporary sediment barrier made of woven, synthetic filtration fabric supported by wood stakes. Silt fencing prevents sediment carried by sheet flow from leaving a site and entering natural drainage ways or storm drainage systems by slowing storm water runoff and causing the deposit of sediment at the silt fence.

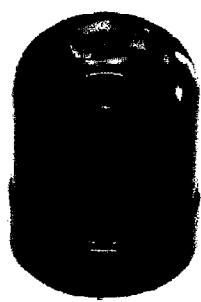
Description	Part Number	Pallet Qty.	List Price (Each)
3' x 100' - 10' Center Stakes	SF36100B-10	25	\$35.14
3' x 100' - 8' Center Stakes (DOT Approved - 8' only)	SF36100B-8	25	\$45.00

No prepaid freight allowed for Black Erosion Fencing

CHRISTY'S™ ORANGE SAFETY CONSTRUCTION FENCING

Christy's ISO 9001 high visibility heavy-weight safety fencing is manufactured from HDPE and stabilized with U.V inhibitors for long-term outdoor sun protection. Perfect for jobsite protection or marking areas of danger.

Description	Part Number	Weight/Roll (lbs.)	Pallet Qty.	List Price (Each)
4' x 50'	TC.OSC.450	6.5	100	\$22.56
4' x 100'	TC.OSC.4100	13.41	50	\$45.00

ORANGE SAFETY BAR CAP

Use with all types of safety and barrier fencing material. Available in Safety Orange color. Fits standard "T" post, rebar from 1/2" to 1", conduit or water pipe. Can be used in place of a Mushroom Bar Cap. **Reusable.**

Sold by case quantity only.

Description	Part Number	Case Qty.	List Price (Case)
Orange Safety Bar Cap	SFC1	200	\$92.59



Before

SAFETY & JOB-SITE ACCESSORIES**LOADBUSTER CLEAN-UP BAGS**

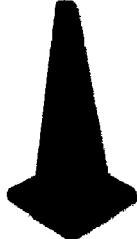
These strong and durable clean-up bags are a heavy 3 mil and measure 32" x 50". They fit 32-43 gallons. Loadbuster bags come on a roll.

SAFETY VESTS

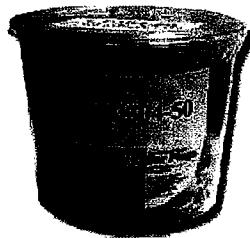
These safety vests are constructed of 100% polyester fluorescent neon green material with orange safety stripes. They also include a non-corrosive zipper front closure and multiple pockets.

Description	Part Number	Case Qty.	List Price (per Box)
20 bags/box	TCGB320	1	\$24.14*
50 bags/box	TCGB350	1	\$58.18*

Description	Part Number	Case Qty.	List Price (Each)
Large	SVGL-L	6/24	\$26.56*
X-Large	SVGL-XL	6/24	\$26.56*
XX-Large	SVGL-XXL	6/24	\$26.56*

GLO-ORANGE SAFETY CONES

Christy's™ PVC injection molded traffic cones are made with a high quality PVC material that is designed to last. Choose from 7 Lb. street approved cones or 10 Lb. highway approved cones.

SAFETY EARPLUGS - 50 PER TUB

Description	Part Number	Case Qty.	List Price (Each)
28" 7 Lb. - Street Approved	SC-287	1	\$21.28*
28" 10 Lb. - Highway Approved	SC-2810	1	\$28.06*

Description	Part Number	Case Qty.	List Price (per Tub)
Foam Corded Earplug	CP304-50	10	\$93.46*

CHRISTY'S™ NEOMASK

Christy's™ Neomask is a multifunction antipollution face mask constructed from neoprene, a hydro-allergenic and stretchable material. The Neomask conforms easily to facial features, allowing a good seal around the face and providing a comfortable fit.

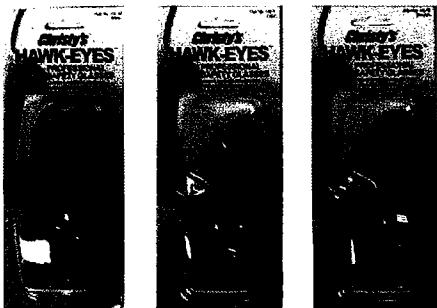


The Neomask is also equipped with a carbon activated filter cloth that helps reduce exposure to organic vapors, dusts and other airborne particles, even those containing oil. It is also designed with a rapid airflow valve system for easy exhalation.

Also included with the Neomask are attached earplugs that are ideal for construction, sanding, cleaning, machining and painting. It's been rigorously tested for quality and performance.

One size fits all. **New clamshell pack contains 10 free paper filters.**

* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

SAFETY & JOB-SITE ACCESSORIES**CHRISTY'S™ HAWK-EYES™ SAFETY GLASSES**

All Hawk Eye™ glasses have a special anti-mist coating to help prevent fogging. The lenses are impact and scratch resistant and are 100% polycarbonate. One premium retention cord comes with every pair. Hawk Eyes™ have UVA-UVB protection and meet ANSI Z87.1 National Safety Standards, OSHA Safety Standards for industrial safety glasses and ANSI Z 80.3 UV filtration requirements. Packaged in a clear hang box.

Description	Part Number	Case Qty.	List Price (Each)
Clear Safety Glasses	HE-C	6/24	\$11.67*
Mirrored Safety Glasses	HE-M	6/24	\$11.67*
Smoke Safety Glasses	HE-S	6/24	\$11.67*

**WAREHOUSE SUPPLIES**

Great for warehouse

PACKAGING TAPE - CLEAR POLYPROPYLENE

Description	Part Number	Case Qty.	List Price (Each)
2" x 55 Yd, 2 mil	TA-33-400C	36	\$1.86*
2" x 110 Yd, 2 mil	TA-33-400C-110	36	\$3.29*

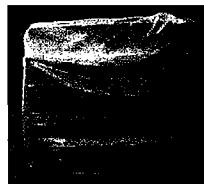
FILAMENT TAPE - MEDIUM TENSILE

Description	Part Number	Case Qty.	List Price (Each)
3/4" X 60 Yd.	TA-33-193075	48	\$3.24*
1" x 60 Yd.	TA-33-193100	36	\$4.18*

SHRINK WRAP - 80 GAUGE

Description	Part Number	Case Qty.	List Price (Each)
18" x 1500'	TA-SHRN	4	\$31.45*
20" x 1000'	TA-SR2080EC	4	\$26.50*

20" includes extended core to use as handles

PALLET COVERS - Protect palletized loads from dust and debris.

Description	Part Number	Case Qty.	List Price (Each)
51" x 49" x 73" Tall Pallet Cover	TC-PLTCOV	6	\$196.42*
63" x 49" x 85" Tall Pallet Cover for Water Heaters	TC-PLTCOV-WH	6	\$213.50*

RED MESH WAREHOUSE SHOP NIPPLE FITTING BAG, 40 LB

Description	Part Number	Case Qty.	List Price (Each)
16" x 12"	NB16	1	\$1.23
24" x 18-1/2"	NB24	1	\$1.67

PLASTIC WAREHOUSE BAGS - CLEAR, 6 MIL

Description	Part Number	Case Qty.	List Price (Each)
12" x 18"	RP1218	250	\$103.04



* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

WARNING TAPES**CAUTION TAPE**

Manufactured with 3 mil virgin LLDPE/ LDPE. Elongation is >400% at break point. Additional legends and colors are also available.

DANGER TAPE

Manufactured with 3 mil virgin LLDPE/ LDPE. Elongation is >400% at break point. Additional legends and colors are also available.

Description	Part Number	Case Qty.	List Price (Each)	Description	Part Number	Case Qty.	List Price (Each)
3" x 300' Caution Tape	TA-CTN-3-300	30	\$8.78*	3" x 300' Danger Tape	TA-DNG-3-300	12	\$8.78*
3" x 1,000' Caution Tape	TA-CTN-3-1000	8	\$15.44*	3" x 1,000' Danger Tape	TA-DNG-3-1000	8	\$15.44*

* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

OTHER WARNING TAPES

All Christy's™ warning tapes are manufactured with 3 mil virgin LLDPE/ LDPE. Elongation is >400% at break point. Additional legends and colors are also available.

Excellent
Point-of-Purchase Sale Items



Description	Color	Part Number	Case Qty.	List Price (Each)
3" x 1000' "Danger - High Voltage Area Keep Out"	Red	TA-ND-3-RHV	8	\$14.45
3" x 1000' "Hazardous Area - Keep Out"	Yellow	TA-ND-3-YKO	8	\$14.45
3" x 1000' "Caution - Open Trench Area"	Yellow	TA-ND-3-YOT	8	\$14.45
3" x 1000' "Caution - Tree Protection Area"	Yellow	TA-ND-3-YTP	8	\$14.45
3" x 1000' "Caution - Wet Paint Area - Keep Out"	Yellow	TA-ND-3-YWP	8	\$14.45
3" x 1000' "Warning Restricted Area - Do Not Enter"	Yellow	TA-ND-3-YRA	8	\$14.45
3" x 1000' "Caution - Hard Hat Area Keep Out"	Yellow	TA-ND-3-YHH	8	\$14.45

"HYDRANT NOT IN SERVICE" HYDRANT WRAP

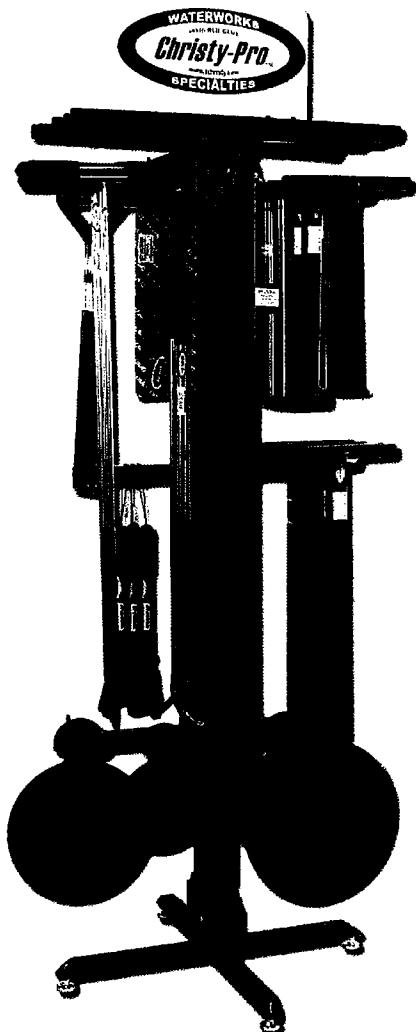
Christy's™ Not in Service Hydrant Wrap is the leading low cost alternative to expensive poly bags. Christy's Not in Service Hydrant Wrap can be installed in a matter of seconds. Wrap up to 300 hundred hydrants per roll. Not intended for permanent use.

SPECIFICATIONS:

All fire hydrants that have yet to be approved or out of service must be wrapped and identified as being "Not in Service". Christy's™ wrap is manufactured of safety orange, 4 mil U.V inhibited polyethylene with bold print showing "NOT IN SERVICE".



Description	Part Number	Case Qty.	List Price(Each)
24" x 1000' x 4 mil	TA-ND-24-ONS	1	\$112.00

CHRISTY'S™ WATERWORKS TOOL RACK**CHRISTY'S™ WATERWORKS TOOL RACK****STANDARD WATERWORKS RACK CONFIGURATION**

See Waterworks Rack Components chart below for items and quantities provided with the standard configuration.

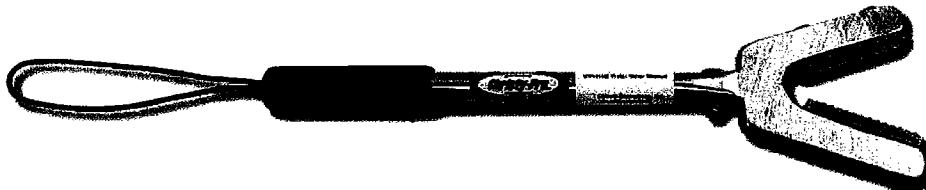
Description	Part Number	List Price (Each)
Standard Waterworks Rack Configuration	TC-WW-RACK	\$6377.22

WATERWORKS RACK COMPONENTS

All Christy's™ Waterworks Rack Components are also available individually.

Description	Part Number	Qty. on Std. Rack
Empty Waterworks Rack	TC-WW-RACK-E	1
5' Standard Gate Valve Wrench	WT-GVW-60	2
6' Standard Gate Valve Wrench	WT-GVW-72	4
5' - 10' Extendable Gate Valve Wrench	WT-GVW-0510	2
6' - 11' Extendable Gate Valve Wrench	WT-GVW-0611	4
Speed Hand Wheel for 2" Valve Op Nut	WT-GVSW	2
18" Long Curb Stop Wrench for 3/4" & 1" Corporation Valves	WT-CS18-0100	2
36" Long Curb Stop Wrench for 3/4" & 1" Corporation Valves	WT-CS36-0100	2
18" Long Curb Stop Wrench for 1-1/2" & 2" Corporation Valves	WT-CS18-0200	2
36" Long Curb Stop Wrench for 1-1/2" & 2" Corporation Valves	WT-CS36-0200	2
24"/42" Two Position Curb Stop Wrench for 3/4" & 1" Corporation Valves	WT-CS2442-0100	1
24"/42" Two Position Curb Stop Wrench for 1-1/2" & 2" Corporation Valves	WT-CS2442-0200	1
Economy Water Meter Key	WT-HDWMK	2
24" Stainless Steel Meter Box Lid Remover	WT-MLR24	4
36" Stainless Steel Meter Box Lid Remover	WT-MLR36	4
Universal Watermeter Wrench	WT-UWMW400	2
Manhole Hook with 1/2" Shaft	WT-MHOOK-12	2
Manhole Hood with 5/8" Shaft	WT-MHOOK-58	4
4' Stainless Steel Soil Probe	WT-SP48	8
6' x 1-1/4" Hex Heavy-duty Digging Bar	WT-XHDB	4
Adjustable Hydrant Lifting Sling	WT-HLS400	2
Valve Lifting Device for 2" - 12" AWWA C-509 and C-515 Gate Valves	WT-VL400	2
4" In-line Test Plate - Class 150	WT-STP-04	2
6" In-line Test Plate - Class 150	WT-STP-06	2
8" In-line Test Plate - Class 150	WT-STP-08	1
10" In-line Test Plate - Class 150	WT-STP-10	1
12" In-line Test Plate - Class 150	WT-STP-12	1

Become a stocking tool distributor and receive the rack free

WATERWORKS TOOLS**UNIVERSAL WATER METER WRENCH**

This Universal Water Meter Wrench has a 7/8" polished 304 stainless steel handle with a UV protected foam grip.

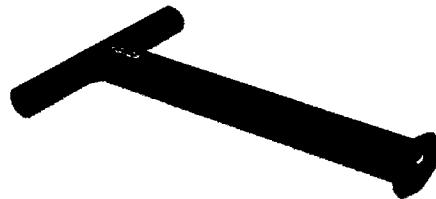
Description	Part Number	Case Qty.	List Price (Each)
Wrench	WT-UWMW400	1	\$103.42

SPEED HAND WHEEL

Christy's Speed Hand Wheel for gate valves allows you to quickly operate valves. The handle has a bearing surface

for ease of actuation, and allows you to use both hands to open stubborn valves. Ideal for professionals working with valves in yards, vaults and performing installations. Hard-wearing blue powder coat finish.

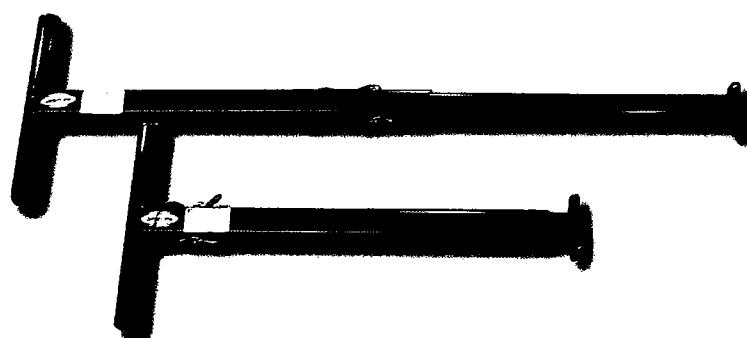
Description	Part Number	Case Qty.	List Price (Each)
For 2" Valve Operation Nut	WT-GVSW	1	\$70.18

CURB STOP WRENCHES

Ideal for reaching deep set valves. Hard-wearing blue powder coat finish.

The Extendable Curb Stop Wrenches are constructed of 1-1/2" heavy wall square tubing which allows no load on the pins. Pins come standard with lanyards to secure the pin while adjusting length.

Description	Part Number	Case Qty.	List Price (Each)
18" Long for 3/4" and 1" Corporation Valves	WT-CS18-0100	1	\$62.18
36" Long for 3/4" and 1" Corporation Valves	WT-CS36-0100	1	\$70.18
18" Long for 1-1/2" and 2" Corporation Valves	WT-CS18-0200	1	\$62.18
36" Long for 1-1/2" and 2" Corporation Valves	WT-CS36-0200	1	\$70.18
24"/42" Two Position for 3/4" and 1" Corp. Valves	WT-CS2442-0100	1	\$98.50
24"/42" Two Position for 1-1/2" and 2" Corp. Valves	WT-CS2442-0200	1	\$98.50



WATERWORKS TOOLS**GATE VALVE WRENCHES**

For 2" AWWA gate valve operation nuts. The shaft is made of 1-1/2" heavy wall square tubing which allows no load on pins for extendable wrenches. Pins come standard with lanyards to secure the pin while adjusting length. The handle is 30" x 1" schedule 40 steel pipe. Hard-wearing blue powdercoat finish.

Description	Part Number	Case Qty.	List Price (Each)
5' Standard	WT-GVW-60	1	\$98.50
6' Standard	WT-GVW-72	1	\$104.65
5' - 10' Extendable	WT-GVW-0510	1	\$177.30
6' - 11' Extendable	WT-GVW-0611	1	\$184.69

CHRISTY'S™ SKIMMER TEST-PLUG WRENCH

This Skimmer Wrench allows removal of the galvanized plug at the base of the skimmer.

NEW!

Description	Part Number	Case Qty.	List Price (Each)
Wrench	WT-SKIMMER WRENCH	1	\$53.82

MANHOLE HOOKS

The handle is perpendicular to the hook to allow better access to the manhole cover. Hard-wearing blue powder coat finish.

Description	Part Number	Case Qty.	List Price (Each)
1/2" Shaft - 27" Length	WT-MHOOK-12	1	\$41.86
5/8" Shaft - 27" Length	WT-MHOOK-58	1	\$50.49
5/8" Shaft - 36" Length	WT-MHOOK-5836	1	\$50.63

EXTRA HEAVY-DUTY DIGGING BAR

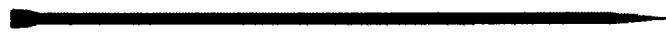
Constructed of high quality hardened and tempered plow steel to prevent bending while pushing pipe. Ideal for dispersing tough soils while excavating. Heat treated pick on one end and wedge on the other. Hard-wearing blue powder coat finish.

Description	Part Number	Case Qty.	List Price (Each)
6' x 1-1/4" Hex Bar, 26 Lbs.	WT-XHDB	1	\$155.13
6' x 1-1/4" Round Bar, 26 Lbs.	WT-XHDB-ROUND	1	\$155.13

POST HOLE DIGGING BAR WITH HEX SHANK

Drop forged high carbon steel, hardened and tempered.

Description	Part Number	Case Qty.	List Price (Each)
69" x 1"	64-549	1	\$68.89*

DIGGING BAR WITH CHISEL POINT

Drop forged high carbon steel, hardened and tempered, polished tip. Import.

Description	Part Number	Case Qty.	List Price (Each)
6', 17 Lb.	64-532	1	\$68.89*

CHRISTY'S™ ECONOMY WATER METER KEY

Christy's™ Premium Water Meter Key has a heavy-duty design made specifically for hard to turn valves. 3/4" solid driver head and steel shaft. 32" length with 14" steel handle.

Description	Part Number	Case Qty.	List Price (Each)
Meter Key	WT-HDWMK	1	\$47.94

* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

WATERWORKS TOOLS**METER BOX LID REMOVER**

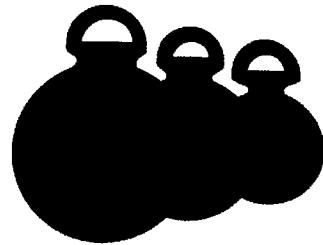
Made of polished 304 stainless steel tubing, this durable lid lifter has a 45° angle at the bottom so there is no stress on the wrist. The hand grip is made of UV protected foam with a wrist string attached.

Description	Part Number	Case Qty.	List Price (Each)
24"	WT-MLR24	1	\$46.78
36"	WT-MLR36	1	\$46.78

ADJUSTABLE HYDRANT LIFTING SLING

Durable nylon sling for installing or removing fire hydrant assemblies on either dry or wet barrel hydrants. Straps will not damage exterior finish on hydrants. Heavy-duty lifting capacity and easily adjustable to fit any fire hydrant.

Description	Part Number	Case Qty.	List Price (Each)
Sling	WT-HLS400	1	\$117.58

TEST PLATES - CLASS 150

The in-line test plate allows you to check the integrity of the pipe and connections without installing a valve. There are two slots at the top of the plate and below the handle for easy installation. Available in clear zinc finish.

Description	Part Number	Case Qty.	List Price (Each)
4"	WT-STP-04	1	\$61.57
6"	WT-STP-06	1	\$61.57
8"	WT-STP-08	1	\$78.80
10"	WT-STP-10	1	\$93.57
12"	WT-STP-12	1	\$112.66
14"	WT-STP-14	1	\$475.25
16"	WT-STP-16	1	\$576.21
18"	WT-STP-18	1	\$864.32
20"	WT-STP-20	1	\$898.79
24"	WT-STP-24	1	\$1,093.33

VALVE LIFTER

Valve lifter slides under the operating nut and is secure 360°. Capable of lifting up to 12" class 300 valves for AWWA C-509 and C-515 gate valves.



Description	Part Number	Case Qty.	List Price (Each)
Valve Lifter	WT-VL400	1	\$105.83

PIPELINE ACCESS CART

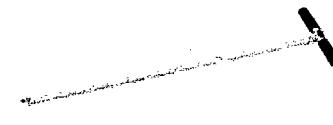
Our Pipeline Access Cart provides access to the inside of pipes safely and easily. Carts can be connected together for transporting tools or equipment. In case of emergency, safety harnesses and ropes can be attached to the cart for extraction. Light weight aluminum construction with durable in-line premium sealed-bearing wheels.

Description	Part Number	Case Qty.	List Price (Each)
Cart	WT-PLAC-400	1	\$588.53

STAINLESS STEEL SOIL PROBE

Polished stainless steel handle with UV protected grips. Shaft is high grade stainless steel and fits through the handle to provide maximum strength. Additional lengths and tips are available upon request.

Description	Part Number	Case Qty.	List Price (Each)
4' Probe	WT-SP48	1	\$92.96

YELLOW FIBERGLASS SOIL PROBE - 48"

Insulated and non-conductive, this soil probe has a 48" long x 1/2" diameter yellow fiberglass shaft handle and a cast metal tip head.

Description	Part Number	Case Qty.	List Price (Each)
48" Probe	SP48	1	\$56.12

WATERWORKS TOOLS

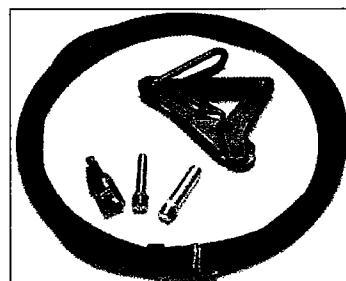
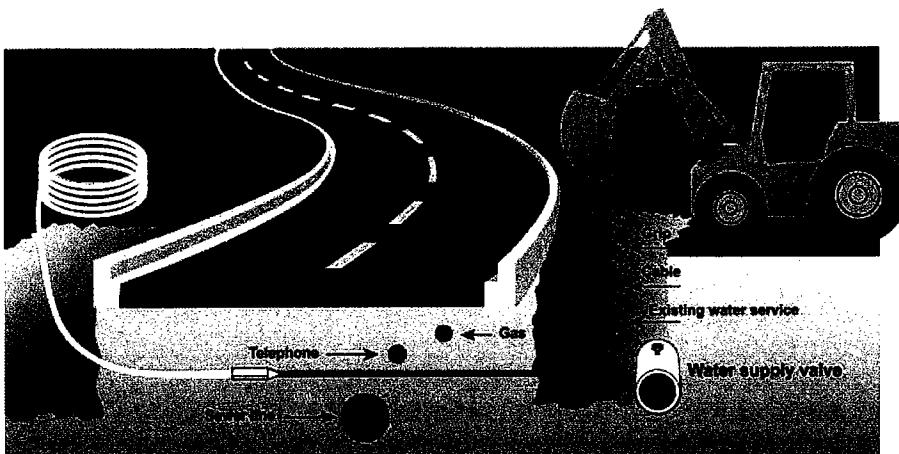
CHRISTY'S™ WATERLINE REPLACEMENT KITS

Reduce material and labor costs by splitting or pulling existing polyethylene or copper water line and re-installing a new line in one operation.

Christy's™ Waterline Replacement Kits utilize a cutter head attached to a heavy-duty pulling cable and Klein cable pulling grip that is pulled through the existing line with a backhoe, winch or truck. Attached to the cutting head is an adapter that pulls the new pipe right through the freshly cut old pipe. Christy's™ offers a wide range of cutter heads with custom adapters for almost any use.

This system will allow you to replace service lines without digging up the entire line, will minimize damage to curbs and sidewalks, and will significantly reduce replacement time.

A 1" cutter head comes standard with your kit, unless noted. The Double Weave Pipe Puller and Pipe Puller Adaptor do not come with the kit and must be ordered separately. See replacement parts below for part numbers.



Waterline Replacement Kit

Description	Part Number	Case Qty.	List Price (Each)
Kit with 50' Cable	WT-WLK-50	1	\$935.73
Kit with 75' Cable	WT-WLK-75	1	\$962.82
Kit with 100' Cable	WT-WLK-100	1	\$1007.14

CHRISTY'S™ WATERLINE REPLACEMENT KIT PARTS



All parts are available individually or with the kit, except for the double weave pipe puller and pipe puller adaptor.

Description	Part Number	Case Qty.	List Price (Each)
Klein Cable Pulling Grip (rated to 8,000 Lbs.)	WT-KPG	1	\$347.94
Klein Cable Pulling Grip (heavy-duty, rated to 16,000 Lbs.)	WT-KPGHD	1	\$622.99
50' Heavy-duty Pulling Cable	WT-WR50	1	\$236.39
75' Heavy-duty Pulling Cable	WT-WR75	1	\$265.94
100' Heavy-duty Pulling Cable	WT-WR100	1	\$310.27
Cutter Head for 5/8" and 3/4" Services	WT-CH75	1	\$376.75
Cutter Head for 3/4" and 1" Services	WT-CH100	1	\$376.75
Cutter Head for 1-1/2" Services	WT-CH150	1	\$418.62
Cutter Head for 2" Services	WT-CH200	1	\$490.02
3/4" Copper Tubing Adapter	WT-CTA075	1	\$76.34
1" Copper Tubing Adapter	WT-CTA100	1	\$76.34
Double Weave Pipe Puller for 3/4" through 1" Pipe	WT-DWP100	1	\$103.42
Double Weave Pipe Puller for 1-1/4" through 2" Pipe	WT-DWP200	1	\$231.47
Double Weave Pipe Pulling Adapter	WT-DWPA	1	\$103.42

MINI SADDLE TAP XL

Description	Part Number	Case Qty.	List Price (Each)
T752 Mini Tap XL Tool Kit (complete)	T752-AK1	1	\$2169.31
Accessories Included:			
T752 Mini Tap XL	T752-A1	1	\$1134.39
3/4" Male CTS Valve Adapter	T752-20	1	\$169.31
1" Male CTS Valve Adapter	T752-21	1	\$169.31
For 5/8" & 7/8" Drills & Cutters Extension	T752-10	1	\$148.15
11/16" Ratchet Wrench	T752-70	1	\$192.59
1-3/4" Wrenches for Valve Adapters	T752-71	1	\$113.58
2" Wrenches for Valve Adapters	T752-72	1	\$128.40
Adjustable Wrench	T752-73	1	\$40.71
Tool Box	T752-74	1	\$93.83

VALVE ADAPTERS**Adapter Style - Female CTS - Flared or Compression**

Description	Part Number	Case Qty.	List Price (Each)
3/4" Male	T752-20	1	\$169.31
1" Male	T752-21	1	\$169.31
1-1/4" Male	T752-22	1	\$179.89
1-1/2" Male	T752-23	1	\$179.89
2" Male	T752-24	1	\$179.89

CUTTERS**Carbide Tipped CI/DI**

Description	Part Number	Case Qty.	List Price (Each)
5/8" Drill	T752-50	1	\$190.48
7/8" Drill	T752-51	1	\$215.87
1-1/8" Drill	T752-52	1	\$237.04
1-1/8" Drill	T752-53	1	\$279.37
1-3/8" Drill	T752-54	1	\$306.88
Carbide Tipped Pilot Drill	T752-55	1	\$88.89

Adapter Style - M110 - Female Compression

Description	Part Number	Case Qty.	List Price (Each)
3/4"	T752-40	1	\$169.31
1"	T752-41	1	\$169.31
1-1/2"	T752-42	1	\$179.89
2"	T752-43	1	\$179.89

PVC CUTTERS

Description	Part Number	Case Qty.	List Price (Each)
5/8" Shell	T752-60	1	\$194.71
7/8" Shell	T752-61	1	\$222.22
1-1/8" Shell	T752-62	1	\$266.67
1-3/8" Shell	T752-63	1	\$285.71
1-3/4" Shell	T752-64	1	\$300.53

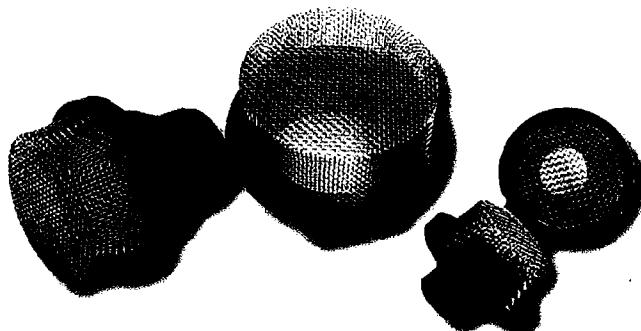
Adapter Style - Female NPT/IPS (Tapered)

Description	Part Number	Case Qty.	List Price (Each)
3/4"	T752-30	1	\$169.31
1"	T752-31	1	\$169.31
1-1/2"	T752-33	1	\$179.89
2"	T752-34	1	\$179.89

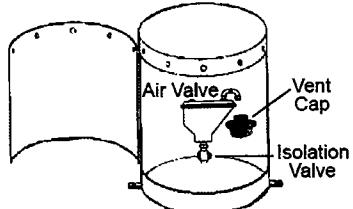
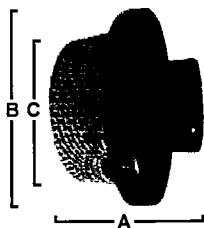
CUTTER EXTENSIONS

Description	Part Number	Case Qty.	List Price (Each)
For 5/8" & 7/8"	T752-10	1	\$148.15
For 1-1/8" & 1-3/4"	T752-15	1	\$179.89

Cutter
Extensions Required For All
Cutters

CHRISTY'S™ AIR VALVE ACCESSORIES**CHRISTY'S™ VENT CAPS**

Christy's™ Vent Caps are made of tough UV stabilized glass-filled nylon resin with #10/ #20 mesh screens. They are intended to be attached by pipe nipple to the air release valve outlet to prevent debris or insects from entering the valves. The vent caps are also designed with sufficient surface open space to allow full air flow. They can also be used as inlet screens.



Description	Part Number	Case Qty.	List Price (Each)
3/4" FPT, #10 Stainless Mesh	VC075-10	1	\$23.98
3/4" FPT, #20 Stainless Mesh	VC075-20	1	\$23.98
1" FPT, #10 Stainless Mesh	VC1-10	1	\$23.98
1" FPT, #20 Stainless Mesh	VC1-20	1	\$24.84
2" FPT, #10 Stainless Mesh	VC2-10	1	\$39.54
2" FPT, #20 Stainless Mesh	VC2-20	1	\$39.51
3" FPT, #10 Stainless Mesh	VC3-10	1	\$67.48
1" MPT, #10 Stainless Mesh	VCM1-10	1	\$23.98
1" MPT, #20 Stainless Mesh	VCM1-20	1	\$26.32
2" MPT, #10 Stainless Mesh	VCM2-10	1	\$46.65
2" MPT, #20 Stainless Mesh	VCM2-20	1	\$49.25
4" MPT, #10 Stainless Mesh	VCM4-10	1	\$144.44

AIR VALVE SIZING

Size	Screen Area	Dimensions
	(Sq. In.)	(A x B x C)
3/4" FPT	14-3/4"	2-1/8" x 3-3/16" x 2-1/2"
1" FPT	14-3/4"	2-1/8" x 3-3/16" x 2-1/2"
2" FPT	27-1/2"	2-5/8" x 4-3/16" x 3-1/2"
3" FPT	46"	3-1/2" x 5-3/16" x 4-1/2"

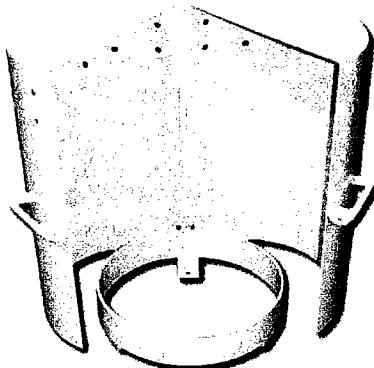
CHRISTY'S™ VANDAL RESISTANT VENT CAPS

Christy's™ Rust Resistant Vent Caps are designed with a #30 mesh screen to prevent debris from entering the vent pipe. Constructed of rust resistant galvanized cast iron.

Description	Part Number	Case Qty.	List Price (Each)
3/4" - (F)NPT #30 Mesh	4021	1	\$10.30
1" - (F)NPT #30 Mesh	4022	1	\$13.30
2" - (F)NPT #30 Mesh	4025	1	\$27.22
3" - (F)NPT #30 Mesh	4027	1	\$85.44
4" - (F)NPT #30 Mesh	4028	1	\$100.11

CHRISTY'S™ WATERWORKS FABRICATION

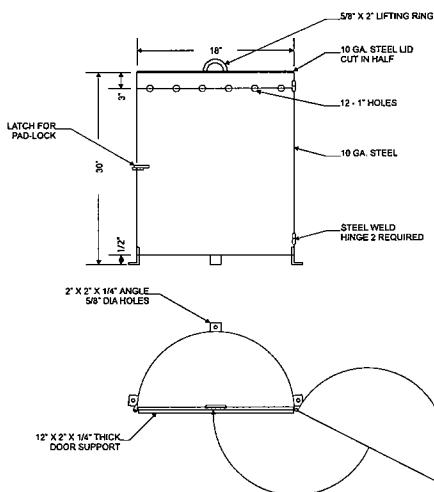
CHRISTY'S™ SPEC AIR VALVE CANS



Christy's™ Spec Air Valve Cans come in three popular sizes and incorporate the best features found in air valve cans for an economical price.

Manufactured of 10 gauge steel with a clamshell door that provides easy access to air valves allowing for easy inspection and maintenance. Three 2" x 2" x 1/4" legs are welded at equal intervals with 5/8" pre-drilled holes for 1/2" anchor bolts. Vent holes at the top and an air gap at the base provide ventilation, reducing heat inside the can, and preventing flooding. The door utilizes strong weld-on hinges with steel pins and is padlock ready.

Drawings and specifications are available upon request. Contact Christy's™ for details. Specify Finish When Placing Order.

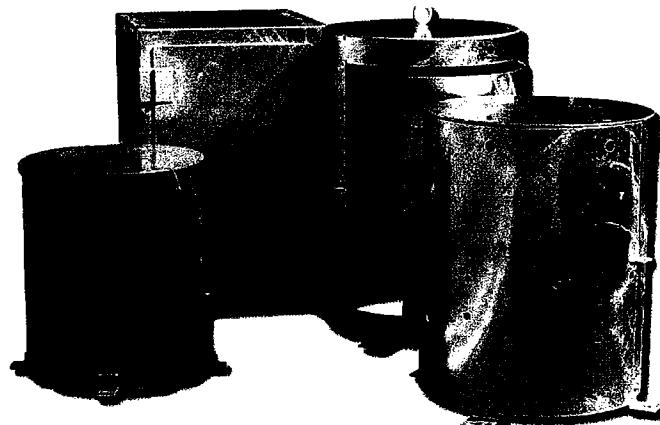


Drawings are available for Christy's™ Air Valve Can and we'll assist with everything you need to get it in your city's specifications.

Description	Size (Diameter x Height)	For Air Relief Vacuum Valves	Part Number	List Price (Each)
Powder Coat/ Primer	18" x 30"	1" & 2"	TC-1830-PC	\$1,458.38
Galvanized	18" x 30"	1" & 2"	TC-1830-G	\$1,585.35
Powder Coat/ Primer	24" x 36"	4" & 6"	TC-2436-PC	\$1,712.35
Galvanized	24" x 36"	4" & 6"	TC-2436-G	\$1,871.08
Powder Coat/ Primer	30" x 48"	8"	TC-3048-PC	\$1,966.32
Galvanized	30" x 48"	8"	TC-3048-G	\$2,156.79

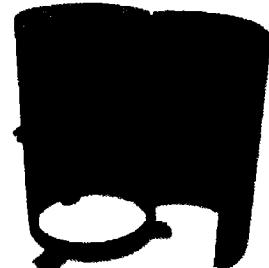
See Christy's web site for standard specifications
at www.tchristy.com.

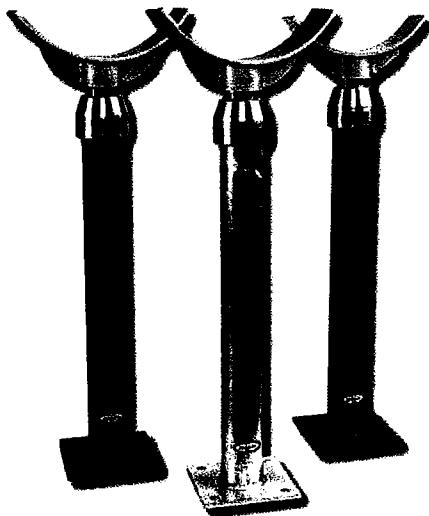
CUSTOM AIR VALVE CANS



Christy's™ will custom manufacture air valve cans to your requirements or city specification. We'll provide the valve can with a primer, galvanized, or powder coated finish to meet your specification.

**Send us your specifications and let us quote
your next fabrication project.**



CHRISTY'S™ WATERWORKS FABRICATION**HEAVY DUTY PIPE SUPPORTS**

These heavy-duty pipe supports incorporate a zinc plated saddle, adjusting thread and adjusting collar. The 8" x 8" base plate includes 4 bolt holes for mounting. The standard support height of 30" can be cut to adjust for smaller size requirements.

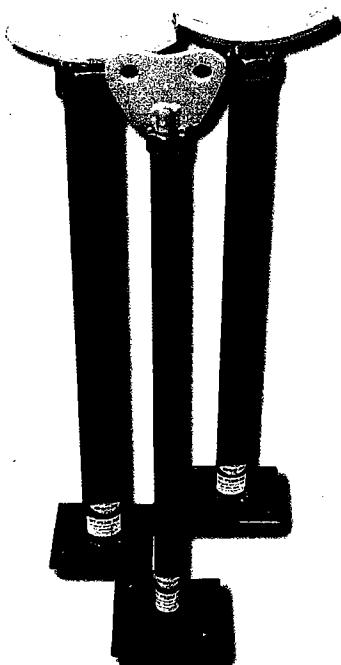
Each saddle size accommodates ductile iron pipe outer diameters (O.D.). The 30" height can be adjusted an additional 6" with the threaded collar or cut down to 9" providing a short pipe support.

Base plate and riser finishes are available in primer, hard-wearing blue powder coat, or galvanized. Options available upon special request include longer support columns, flange mount supports, U-bolts and straps.

Description	Part Number	Case Qty.	List Price (Each)
4" Pipe	WT-GPS-04	1	\$387.52
6" Pipe	WT-GPS-06	1	\$387.52
8" Pipe	WT-GPS-08	1	\$412.67
10" Pipe	WT-GPS-10	1	\$465.40
12" Pipe	WT-GPS-12	1	\$465.40
14" Pipe	WT-GPS-14	1	\$480.17
16" Pipe	WT-GPS-16	1	\$480.17
18" Pipe	WT-GPS-18	1	\$517.11
20" Pipe	WT-GPS-20	1	\$517.11
24" Pipe	WT-GPS-24	1	\$581.75

HEAVY DUTY STAINLESS STEEL PIPE SUPPORTS ARE ALSO AVAILABLE

Call Christy's™ for details.

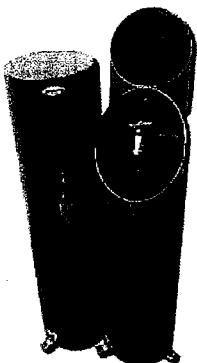
PIPE SUPPORTS - BLUE POWDER COAT FINISH

Zinc plated thread and nut for corrosion protection. Standard saddle supports 2" through 24" pipe. 30" height can be adjusted an additional 6" with the threaded collar, and the support tube can be cut down to 9" for a short pipe support.

Flange mount bolts directly to bottom two flange bolt holes. Base material constructed of 6" x 6" x 3/8" plate. Hard-wearing blue powder coat finish.

Specify pipe size for flange supports when ordering. Custom supports can also be made to your specification.

Description	Part Number	Case Qty.	List Price (Each)
1" Riser, Flange Mount (2" Pipe)	WT-PSFM-102	1	\$132.41
1" Riser, Flange Mount (4" Pipe)	WT-PSFM-104	1	\$132.41
1" Riser, Flange Mount (6" Pipe)	WT-PSFM-106	1	\$132.41
1" Riser, Flange Mount (8" Pipe)	WT-PSFM-108	1	\$132.41
1" Riser, Saddle Mount (2" - 8" Pipe)	WT-PSSM-100	1	\$76.34
1-1/2" Riser, Flange Mount (8" Pipe)	WT-PSFM-208	1	\$195.90
1-1/2" Riser, Flange Mount (10" Pipe)	WT-PSFM-210	1	\$195.90
1-1/2" Riser, Saddle Mount (10" - 16" Pipe)	WT-PSSM-200	1	\$152.67
2" Riser, Saddle Mount (18" - 24" Pipe)	WT-PSSM-300	1	\$238.86

CHRISTY'S™ WATERWORKS FABRICATION**WATER SAMPLING STATIONS**

Manufactured from 8-5/8" x 10 gauge steel pipe. This sampling station has a 36" overall height, 180° flip top lid, and alignment latch with a padlock hole and three mounting legs at 120°. A U-bolt is provided to mount the pipe riser and valve.

Description	Part Number	Case Qty.	List Price (Each)
Primer Coated	WT-WSS-PC	1	Call
Epoxy Powder Coated	WT-WSS-EC	1	Call
Stainless Steel	WT-WSS-SS	1	Call
Hot-dip Galvanized	WT-WSS-HDG	1	Call

POLYFIBER VALVE STEM EXTENSIONS FROM 1' - 10'

Our Polyfiber Valve Stem Extension kit is ideal for field fabrication of valve stem extensions. They reduce the need for pre-measurement and the hassle of waiting for fabricated product. Tested at 750 lbs. and weighing 80% less than steel, these valve stem extensions are dimensionally stable and corrosion resistant

Upper and lower operating nuts are injection molded with an aircraft grade, impact resistant poly compound. The shaft is manufactured of high quality dimensionally reinforced 2" square tube fiberglass with 1/4" wall thickness.

The centering ring fits 8" valve cans, and is made to be easily trimmed to fit 4-1/2" and 6" valve cans. Recommended for extensions up to 10' long and ideal for long-term use in wet or damp environments. Will not rust or corrode.



Christy's™ Polyfiber Valve Stem Extension Kit allows you to easily field-fabricate a valve extension from 1' to 10' long for 4-1/2", 6" and 8" valve cans.

Description	Part Number	Case Qty.	List Price (Each)
Upper Operating Nut with Adjustable Valve Can Ring (Male)	WT-PFUM-100	1	\$33.86
Lower Operating Nut (Female)	WT-PFLF-100	1	\$22.78
2" Square Fiberglass Tubing - 20' length	WT-FGT-200	1	\$320.02
2" Square Fiberglass Tubing - 10' length	WT-FGT-100	1	\$178.27
Adhesive for Extension, 10.2 oz.	WT-FAD-102	1	\$12.93
Adhesive for Extension, 3.7 oz.	WT-FAD-37	1	\$9.10

STEEL VALVE STEM EXTENSIONS WITH 1-1/2" SQUARE SHAFT

Permanent valve stem extensions with standard 2" drive nuts and heavy-wall square tubing. Custom extensions made to order such as corp stop, pentagon, hexagon and hand wheel. Available with enamel or galvanized finish. Can also be manufactured with round tubing and solid shaft. Please specify length and valve can size when ordering. Additional charges will apply to extensions in excess of 5'.

Description	Part Number	Case Qty.	List Price (Each)
Enamel	WT-SVE150-P	1	\$125.71
Galvanized	WT-SVE150-G	1	\$189.21

Let us quote your custom extension requirements.

LUBRICANTS & PROTECTANTS

ANTI-SEIZE & LUBRICATING COMPOUND



Designed to lubricate and protect metal. Protects against corrosion, seizure, galling, carbon fusion, and galvanic pitting from 0°F to 2200°F.

Ideal for threaded fittings, sprockets and chains, splines and worm gears, manifold studs and bolts, brake cams and pins, rig drives, casting equipment, winches, conveyors, valve shafts, food processing equipment. Not to be used with oxygen systems.

Description	Part Number	Case Qty.	List Price (Each)
8 oz. Brush-top Plastic Bottle	S62008	12	\$19.62
16 oz. Brush-top Plastic Bottle	S62016	12	\$32.82
16 oz. Aerosol Spray	S00620	12	\$14.91

ZINC RICH COLD GALVANIZING COMPOUND



A high performance primer that stops rust by electro-chemical action on steel or galvanized coatings. This compound fuses zinc to the metal substrate and delivers protection against corrosion equal to or better than hot dipped galvanize.

Perfect for industrial tanks, piping, welded joints, farm equipment, fences, gutters and galvanized surfaces.

Description	Part Number	Case Qty.	List Price (Each)
16 oz. Spray	S00740	12	\$10.77

WASP & HORNET SPRAY



Contains a high amount of petroleum distillates for the best knockdown and kill rate. Kills wasps, hornets, yellow jackets, flies, mosquitoes and flying moths. **20 oz. can.**

NEW!

Description	Part Number	Case Qty.	List Price (Each)
Wasp & Hornet Spray	S02085700	12	\$11.32

RUST INHIBITOR



A waxy, heavy-duty, rust inhibitor formulated to stand up to the most severe weather conditions, offering 24-month durability. Provides over 1,200 hours of protection against salt spray and a barrier that guards against humidity. Works on all metals, rubber, most plastic and painted surfaces. NSF reg. 127500; H2 rated.

Use for storage tanks and containers, castings, industrial parts and machines, molds, cables, generators, marine engines and parts, electrical equipment and threads.

Description	Part Number	Case Qty.	List Price (Each)
11 oz. Lube	S00777	12	\$12.24

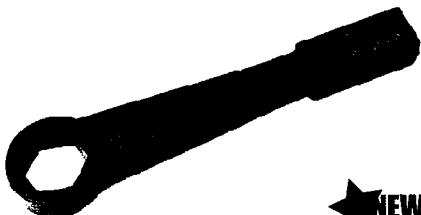
WD 40®



WD-40® is the #1 multi-purpose product in the U.S. The five basic functions of WD-40® are cleaning, lubricating, penetrating stuck metal parts, displacing moisture and protecting against rust and corrosion. Ideal for all counter sales areas!

Description	Part Number	Case Qty.	List Price (Each)
2 oz.	WD-2	12	\$5.40*
8 oz.	WD-8	12	\$5.78*
11 oz.	WD-11	12	\$7.58*
16 oz.	WD-16	12	\$10.14*

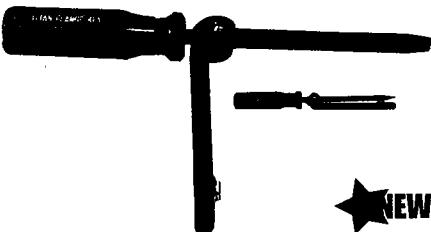
* Pricing shown is taken from Christy's™ Handtool Catalog and is subject to change. Please call to confirm pricing.

STRIKING WRENCHES**STRIKING WRENCH (6-PT STRAIGHT)**

Striking Wrenches feature greater handle strength clearance in overall head diameter necessary for working with flange connections. The large smooth striking surface reduces blows and lessens the chance of a rope slipping from the handle when maintaining tension on the wrench. All Striking Wrenches are forged from alloy steel and are heat-treated to guarantee hardness for strength and maximum tool life.

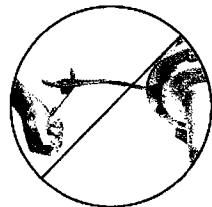
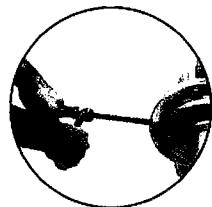


Description	Part Number	Stud Size	Nut Size	Head Diameter	Weight	Case Qty.	List Price (Each)
5/8"	SW01	5/8"	1-1/16"	1-11/16"	1.70	1	\$74.61
3/4"	SW02	3/4"	1-1/4"	1-15/16"	2.00	1	\$77.86
7/8"	SW03	7/8"	1-7/16"	2-1/4"	3.25	1	\$97.14
1"	SW04	1"	1-5/8"	2-1/2"	4.50	1	\$112.76
1-1/8"	SW05	1-1/8"	1-13/16"	2-11/16"	4.75	1	\$116.67
1-1/4"	SW06	1-1/4"	2"	2-15/16"	5.58	1	\$120.05
1-3/8"	SW07	1-3/8"	2-3/16"	3-3/16"	6.78	1	\$154.95
1-1/2"	SW08	1-1/2"	2-3/8"	3-7/16"	7.58	1	\$175.78
1-5/8"	SW09	1-5/8"	2-9/16"	3-11/16"	8.50	1	\$193.36
1-3/4"	SW10	1-3/4"	2-3/4"	3-7/8"	8.75	1	\$261.72
1-7/8"	SW11	1-7/8"	2-15/16"	4-1/4"	9.78	1	\$270.83
2"	SW12	2"	3-1/8"	4-3/8"	10.25	1	\$315.76
2-1/4"	SW13	2-1/4"	3-1/2"	4-7/8"	11.38	1	\$451.27
2-1/2"	SW14	2-1/2"	3-7/8"	5-1/4"	13.25	1	\$632.81

SPECIALTY TOOLS**TITAN FLANGE KEY**

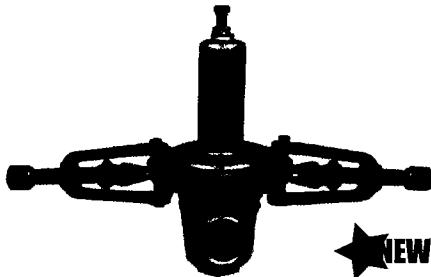
NEW!

Use this Flange Key to separate flanges instead of risking an injury because of the improper use of hand tools. The blade is made of heat-treated 5160 steel with the point sharpened to 3/32 of an inch. This, coupled with a hard plastic handle, allows the point of the blade to be easily driven between two flanges. The handle lever will not exceed 90° when opened, and a magnet holds it in place when closed to prevent the tool from opening while in a pocket or tool box.



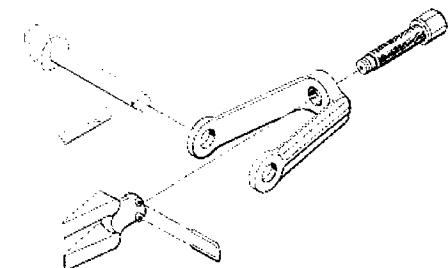
ceed 90° when opened, and a magnet holds it in place when closed to prevent the tool from opening while in a pocket or tool box.

Description	Part Number	Weight	Case Qty.	List Price (Each)
11"	FK100	1.25 Lbs.	1	\$178.56

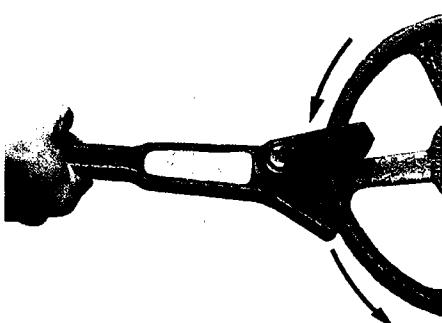
TITAN FLANGE SPREADER

NEW!

Titan Flange Spreaders have been carefully designed for safety in separating pipe and ring joint flanges in refineries, pipelines and various industrial facilities.



Description	Part Number	Pin Diameter	Weight	Case Qty.	List Price (Each)
2-3/4" Spread	N14	5/8"	8	1	\$607.99
3-3/4" Spread	N48	3/4"	9	1	\$628.65
4-7/8" Spread	N812	7/8"	10	1	\$667.01
6-1/8" Spread	N1216	1"	15	1	\$793.92
7-1/2" Spread	N1620	1-1/8"	18	1	\$994.62
9-1/8" Spread	N2024	1-1/4"	20	1	\$1056.60

TITAN VALVE WHEEL LATCH WRENCH

NEW!

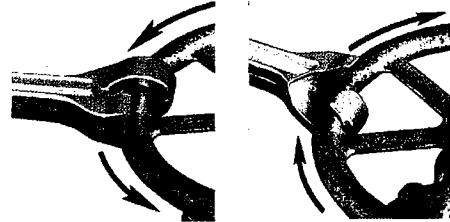
This Valve Wheel Latch wrench actually grips the rim of the wheel to prevent the wrench from slipping when opening and closing valves. The patented latching mechanism pivots freely around a bushing and rivet allowing the wrench to be placed on and taken off the valve wheel with ease. The titan valve wheel latch wrench is made from alloy steel for strength and durability.

Description	Part Number	Length	Weight	Case Qty.	List Price (Each)
1-3/16" Opening	VWL1	11-1/4"	3-1/2 Lbs.	1	\$292.19

SPECIALTY TOOLS**TITAN VALVE WHEEL WRENCH**

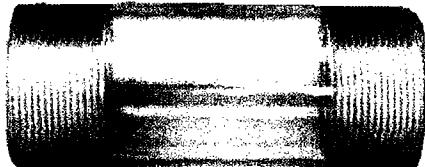
NEW!

This valve wheel wrench significantly reduces the chance of injury due to wrench slippage when opening and closing valves. These durable, ductile iron wrenches are safer and easier to use because the head design provides a better grip and allows the operator to rest the wrench on top of the wheel



when opening stubborn valves. This along with longer handle lengths for more leverage, make the Double-end Surgrip the best valve wheel wrench on the market.

Description	Part Number	Weight	Case Qty.	List Price (Each)
8"	VW0SG	14 ozs.	1	\$61.83
15"	VW0LSG	1-3/8 lbs.	1	\$81.46
10"	VW10SG	1-1/2 lbs.	1	\$68.47
22"	VW12SG	4-5/8 lbs.	1	\$107.43
22"	VW1SG	4 lbs.	1	\$149.78
27"	VW2SG	5-5/8 lbs.	1	\$157.16
27"	VW3SG	12 lbs	1	\$264.89

PETOL SIGHT GLASS

This sight glass allows the pumper and water hauler to see what is flowing through the storage tank drain lines at all times. The clear view nipple is made from a tough, shatter resistant polycarbonate. This type of plastic has more than 30 times the impact resistance of safety glass, withstands prolonged exposure to ultra-violet rays and can be used in temperatures ranging from -150° to 165°F.

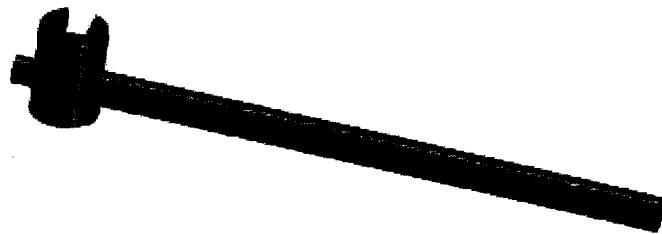


• Use on drain lines only

NEW!

Description	Part Number	Connection	Weight	Rating	Case Qty.	List Price (Each)
2" x 8"	SG0500	THREADED	1	500 PSI	1	\$111.33
2" x 8"	SG0500V	VICTAULIC GROOVE	1	500 PSI	1	\$109.11
2" x 8"	SG1000*	THREADED	1.2	1000 PSI	1	\$114.84
2" x 8"	SG1000V*	VICTAULIC GROOVE	1.2	1000 PSI	1	\$114.84
3" x 8"	SG0500-3	THREADED	1.2	500 PSI	1	\$147.14
3" x 8"	SG500V-3	VICTAULIC GROOVE	1.3	500 PSI	1	\$143.88
4" x 8"	SG0500-4	THREADED	1.3	500 PSI	1	\$199.87
4" x 8"	SG0500V-4	VICTAULIC GROOVE	1.3	500 PSI	1	\$190.10

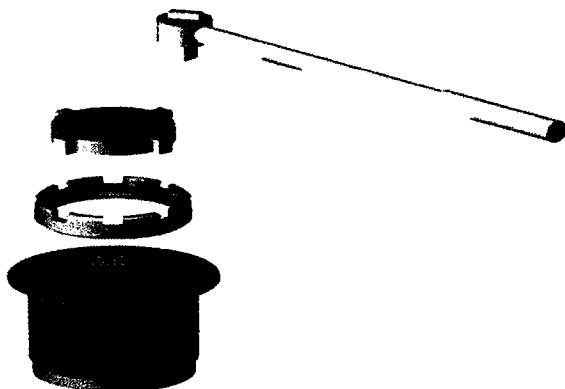
* Special lengths available upon request.

SPECIALTY TOOLS**EMERGENCY GAS SHUT-OFF WRENCH**

1/2" slotted head fits most home gas meter valves.

NEW!

Description	Part Number	Case Qty.	List Price (Each)
Gas Shut-off Wrench	7000-EW	1	\$18.80

FLOOR DRAIN WRENCH

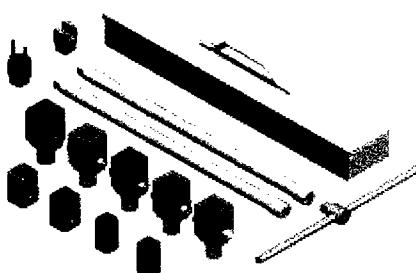
This simple tool is a must when the floor drain inner ring is jammed tight! This sturdy tool is made from 3/8" steel plate. Just drop the drain wrench into place and insert a 3/8" square ratchet wrench (you'll probably need an extension) and twist that drain ring out in seconds.

NEW!

Description	Part Number	Case Qty.	List Price (Each)
Floor Drain Wrench	7000-DW	1	\$25.64

VALVE OPERATOR KEY SET

Open and close utility valves with this multi-function kit. All keys smaller than 2" nest inside the 2" key and bolt in for extra strength.

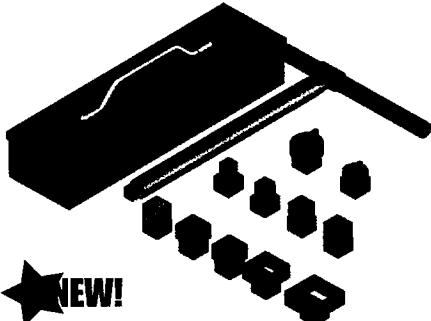


NEW!

Description	Part Number	Case Qty.	List Price (Each)
Multi-function Kit	1600-VO	1	\$511.11

Kit includes:

- Sliding T-Handle with two 28" extensions, 2" Square Head, 1-3/4" Square Head, 1-1/2" Square Head, 1-1/4" Square Head.
- 1" Square Head, 7/8" Slotted Key.
- 2 Prong Head for small valve handles.
- 29" x 6" x 3" latching metal box with handle.

SPECIALTY TOOLS**CLEAN-OUT PLUG WRENCHES**

NEW!

0701-CPX Clean-out Plug Wrench Set.



0701RH1 Raised Head Wrench.



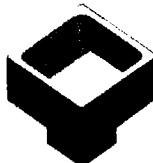
0701RH2 Raised Head Wrench.



0701RH3 Raised Head Wrench.



0701RH4 Raised Head Wrench.



0701RH5 Raised Head Wrench.



0701CS6 Counter Sunk Wrench.



0701CS7 Counter Sunk Wrench.



0701CS8 Counter Sunk Wrench.



0701CS9 Counter Sunk Wrench.

A wrench for every size and style of clean out plug: 5 raised head, 4 countersunk, and 2 slotted. Comes with or without 17" sliding T-Handle.

CLEAN-OUT PLUG WRENCHES - SET

Description	Part Number	Case Qty.	List Price (Each)
Clean-out Plug Wrench Set (11 pieces) with box and 16" T-handle	1701-CPX	1	\$441.03

RAISED HEAD WRENCHES - INDIVIDUAL PIECES

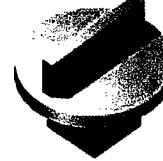
Description	Part Number	Case Qty.	List Price (Each)
1-1/2" Raised Head Wrench: 7/8" I.D.	0701RH1	1	\$34.19
2" Raised Head Heavy Wall Wrench: 1-1/8" I.D.	0701RH2	1	\$34.19
2" Raised Head Regular Wall Wrench: 1-1/4" I.D.	0701RH3	1	\$34.19
3" Raised Head Regular Wall Wrench: 1-3/4" I.D.	0701RH4	1	\$34.19
4" Raised Head Regular Wall Wrench: 2-1/8" I.D.	0701RH5	1	\$34.19

COUNTER SUNK WRENCHES - INDIVIDUAL PIECES

Description	Part Number	Case Qty.	List Price (Each)
1-1/2" Countersunk: 3/4" Square, Regular	0701CS6	1	\$34.19
2" Countersunk: 7/8" Square, Regular	0701CS7	1	\$34.19
3" Countersunk: 1-1/8" Square, Regular	0701CS8	1	\$34.19
4" Countersunk: 1-1/4" Square, Regular	0701CS9	1	\$34.19

SLOTTED WRENCHES - INDIVIDUAL PIECES

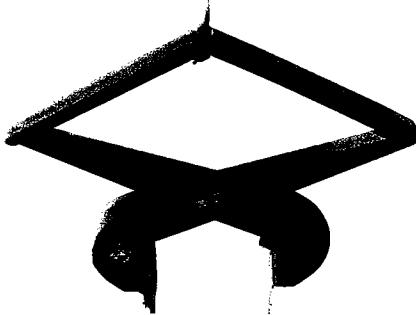
Description	Part Number	Case Qty.	List Price (Each)
2" Slotted: 1/4" X 1", Regular	0701SW10	1	\$37.61
4" Slotted: 1/4" X 1-3/4", Regular	0701SW11	1	\$37.61
6" Slotted: 1/4" X 2-1/2", Regular	0701SW12	1	\$61.54



0701SW10 Slotted Wrench.

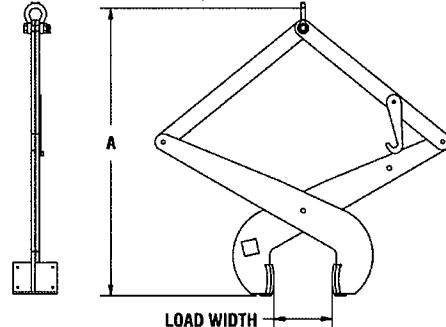
0701SW11 Slotted Wrench.

0701SW12 Slotted Wrench.

LIFTING TOOLS**SLAB TONGS**

These Slab Tongs are designed for lifting heavy slabs of concrete, stone, plate glass or highly polished metal sheets that must be protected from scratching or marring. They can be used in construction work to position slabs.

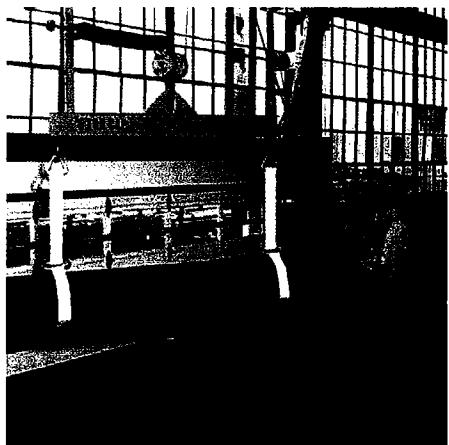
The curved pads give proper contact for gripping smooth surfaces and handling a large range of sizes. Semi-automatic latch is standard and serves as an aid in positioning the tongs for picking-up the load. Designed and manufactured to ASME B30.20.



Description	Part Number	Weight	Rated Cap. (lbs.)	Load Width (in.)	Dim. A (in.)	Weight (lbs.)	Case Qty.	List Price (Each)
1,000 Lb. Capacity, 6" to 10"	71-1	75	1,000	6 to 10	39	75	1	\$1,064.33
1,500 Lb. Capacity, 8" to 12"	71-2	85	1,500	8 to 12	39	85	1	\$1,087.72
1,500 Lb. Capacity, 10" to 14"	71-3	145	1,500	10 to 14	40	145	1	\$1,321.64
1,500 Lb. Capacity, 14" to 18"	71-4	145	1,500	14 to 18	44	145	1	\$1,859.11
1,500 Lb. Capacity, 18" to 22"	71-5	150	1,500	18 to 22	45	150	1	\$2,191.63

TRIANGLE/CHOKER PIPE LIFTING SLINGS

Double ply slings with steel fittings. Resin treated for sure grip and resistance to wear. For added stability use in pairs in conjunction with spreader beam.



Description	Part Number	Weight (lbs.)	Case Qty.	List Price (Each)
Up to 6" Pipe O.D.	D4TC-Q-36	9	1	\$339.18
Up to 12" Pipe O.D.	D4TC-Q-56	11	1	\$374.27
Up to 18" Pipe O.D.	D4TC-Q-7	19	1	\$591.81
Up to 20" Pipe O.D.	D4TC-Q-76	20	1	\$715.25
Up to 24" Pipe O.D.	D4TC-Q-86	21	1	\$755.74

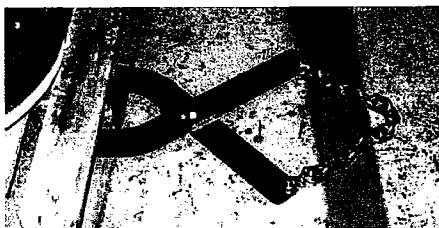
SPECIFICATIONS

Part Number	Rated Capacity (lbs)		Max. Pipe Dia. (in.)	Sling		Approx. Weight
	Choker	Basket		Width (in.)	Length	
D4TC-Q-36	8,800	22,000	6	4	3'-6"	9
D4TC-Q-56	8,800	22,000	12	4	5'-6"	11
D4TC-Q-7	13,200	33,000	18	6	7'	19
D4TC-Q-76	13,200	33,000	20	6	7'-6"	20
D4TC-Q-86	13,200	33,000	24	6	8'-6"	21

LIFTING TOOLS**PALLET PULLER**

For use when a lift truck cannot enter a trailer or when unloading a truck from ground level. Single scissor action extends fork truck reach and will hold up to 1,250 Lbs. average safe load and 5,000 Lbs. maximum capacity. 4" jaw opening. **Not for overhead lifting.**

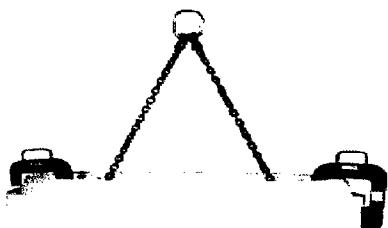
Description	Part Number	Weight (lbs.)	Case Qty.	List Price (Each)
15' Chain	MPP-1	11	1	\$292.40
10' Chain	MPP-10	21	1	\$339.18
20' Chain	MPP-20	31	1	\$385.96
30' Chain	MPP-30	41	1	\$409.36
40' Chain	MPP-40	51	1	\$432.75



Perfect job-site companion where a truck dock isn't available. Just hook and pull.

SPECIFICATIONS

Part No.	Jaw Opening	Chain Length	Weight (lbs.)
MPP-1	4"	15'	11
MPP-10	4"	10'	21
MPP-20	4"	20'	31
MPP-30	4"	30'	41
MPP-40	4"	40'	51

CONCRETE HOUSING LIFTER

These Concrete Housing Lifters are available in two or three leg models and handle 4" - 6" concrete wall thickness. They will not damage the concrete seat and the legs can be quickly positioned to balance the load. Constant tension is required to maintain a positive load contact. Reverse cam action eliminates slippage tendency. Conforms to ASME B30.9 & B30.20.

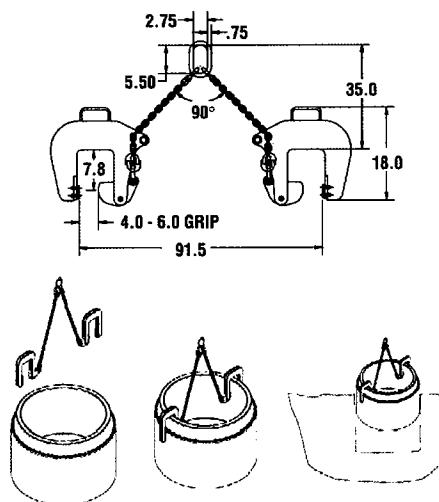
Special order only. No prepaid freight allowed.



Description	Part Number	Weight (lbs.)	Case Qty.	List Price (Each)
Two Leg Lifter: 2 42" legs	MHL-5	95	1	\$2,511.56
Three Leg Lifter: 2 42" legs, 1 72" leg	MHL-712-72	145	1	\$4,368.15
Clamp Only	MHL-C	36	1	\$987.49

SPECIFICATIONS

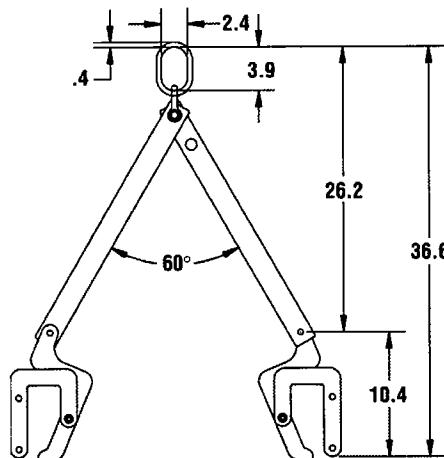
Part No.	Description	Capacity (lbs.)	Weight (lbs.)
MHL-5	2-Leg Model - Two 42" Legs	10,000	95
MHL-712-72	3-Leg Model - Two 42" Legs - One 72" Leg	15,000	145
MHL-C	Clamp Only	5,000	36



LIFTING TOOLS**MANHOLE SLEEVE LIFTER**

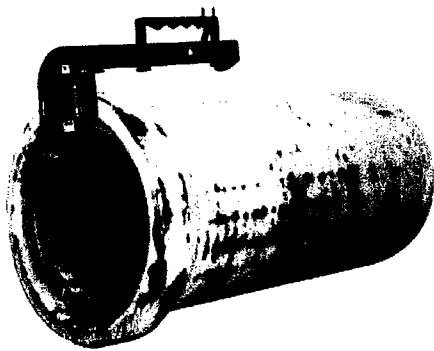
The Manhole Sleeve Lifter provides a quick and efficient way to place cast manhole sleeves. Easily attaches to and releases from the load.

Special order only. No prepaid freight allowed.

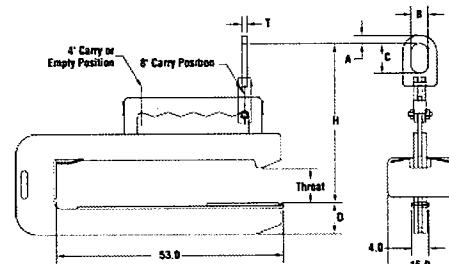


NEW!

Description	Part Number	Capacity (lbs.)	Weight (lbs.)	Case Qty.	List Price (Each)
Two Leg Lifter	MCL-12	1,000	30	1	\$760.77
Three Leg Manhole Lifter: 2 18" Legs, 1 30" Leg with Shortener	MCL-34	1,500	25	1	\$1,456.05
Clamps Only	MCL-C	500	6	1	\$224.20

C-HOOK PIPE LIFTER

These C-Hook Pipe Lifters handle pre-cast concrete pipe in both 4' & 8' long sections. Dual lift points allow hook to be carried safely loaded or unloaded. Non-skid urethane saddle prevents pipe from slipping off lifter. Quick, efficient way to pick and place. Conforms to ASME B30.20.



Special order only. No prepaid freight allowed.

NEW!

Description	Part Number	Weight (lbs.)	Case Qty.	List Price (Each)
10 - 27" Dia. Pipe	CPL	250	1	\$3,791.27
20 - 42" Dia. Pipe	CPL-3	500	1	\$5,111.29

QUICK-CHOKE™ PIPE LIFTING SLING

Rigging is quick and easy by wrapping sling around pipe and hooking it on itself. Allows pipe to be handled quickly and efficiently while properly balanced. May be used in pairs for added stability.



NEW!

Description	Part Number	Rated Capacity (lbs.)	Web Sling		Case Qty.	List Price (Each)
			Width	Length		
10' x 2", 4,000 Lb	QC-2	4,000	2	10	1	\$224.02
12' x 3", 7,000 Lb	QC-3	7,000	3	12	1	\$375.17
14' x 4", 9,000 Lb	QC-4	9,000	4	14	1	\$583.00

WATER TEST PRODUCTS**FREE CHLORINE WATER CHECK**

Used as an alternative to DPD, SenSafe™ Free Chlorine Water Check™ strips avoid the types of errors inherent to currently available test methods. SenSafe™ Free Chlorine Water Check™ requires no powders, tablets, liquids, instruments, technical training, or MSDS. All of these factors make SenSafe™ Free Chlorine Water Check™ the safe, accurate, easy, and affordable testing solution.

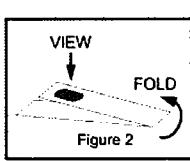
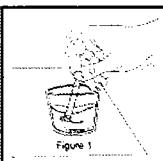
481026 Free Chlorine Water Check.



Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
Chlorine Water Check - Free, Bottle of 50	0, 0.05, 0.1, 0.2 0.4, 0.6, 0.8, 1.2, 1.5, 2.0, 2.6, 4.0,>6.0mg/L	Colorimetric, TMB	40 Seconds	481026	12	\$33.33
Chlorine Check Ultra High-Free, Bottle of 50	0, 25, 50, 100, 200, 300, 400, 500, 750 ppm	Colorimetric, TMB	40 Seconds	480024	12	\$29.17

FIRST EPA PROPOSED STRIP for Free Chlorine Screening

EPA's test strip proposal will be made in an upcoming rulemaking that will be published in the Federal Register. Prior to permitted use for compliance monitoring purposes, users can become familiar with the test method on a screening basis.



US PATENT 5491094 & 6541269

SenSafe™ Free Chlorine Water Check™

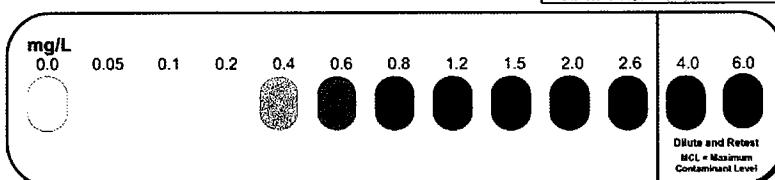
sample color chart

Test Procedure:

Dip one (1) test strip into a 50 ml (about 2 oz.) sample for twenty (20) seconds with constant, gentle back-and-forth motion that maximizes the liquid flow through the indicator pad (aperture). Remove and shake strip once briskly to remove excess sample. Wait twenty (20) seconds and match with the best color to determine Parts per Million (PPM) or mg/Liter concentration of Free Chlorine. Complete the color matching within one (1) minute.

NOTE: For best results the back-and-forth motion should be with 1" to 2" (2.5 to 5.0 cm) strokes and about 40 strokes during the 20 seconds (1 back and 1 forth stroke per second). Also, view color through aperture against a white surface. A suggestion is to fold the white plastic handle of the test strip under the aperture so that it produces a consistent viewing background (blocks all distractions from behind) (See FIGURE 2).

*NOTE: Color chart prepared with standards at 24°C. For precise results, dip time should be adjusted to correct for water temperature effect. Call ITS to receive temperature adjustment chart.



WATER TEST PRODUCTS

WATER HARDNESS

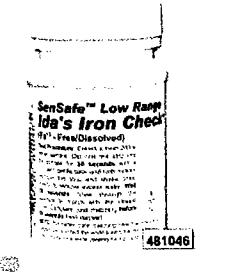


480008 Water Hardness.

Calcium and Magnesium are naturally occurring minerals responsible for water hardness. Hardness is a key water chemistry parameter and its control is important to help assure proper water quality. Low levels of calcium and magnesium (soft water) can contribute to problems of corrosive water. High calcium and magnesium levels, especially above 400 ppm, can lead to possible water clarity problems and scaling. Hardness levels can be determined by using a simple dip and read strip. Levels are standardized as Calcium.

Description	Part Number	Case Qty.	List Price (Each)
0, 40, 80, 120, 180, 250, 425, 1000 AND: 0, 2, 5, 7, 11, 15, 25, 58 grains /gallon	480008	12	\$18.75

IRON CHECK STRIPS



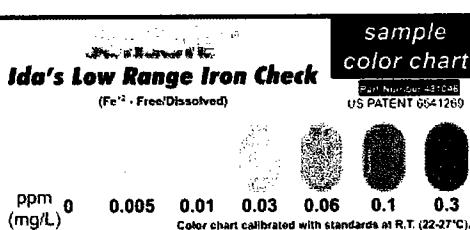
481046 Iron Check Strips.

The presence of dissolved iron in water can have negative consequences. It can lead to stained clothes, corrosion of pipes and fixtures, and a foul taste in drinking water. By using ITS' patented aperture, SenSafe™ Iron Check allows detection down to 0.005 ppm. SenSafe™ Iron Check strips are ideal for use at process control points and in the field.

Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
Iron (IDA'S), (Fe+2),, Bottle of 25	0 - 0.3 ppm (mg/l)	Colorimetric	60 Seconds	481046	12	\$29.17



Test Procedure: Collect a fresh 200mL water sample. Dip one test strip into the sample for **30 seconds** with a constant, gentle back-and-forth motion. Remove the strip and shake once, briskly, to remove excess water. **Wait 30 seconds.** View through the aperture to match with the closest color. Complete color matching before **60 seconds** have elapsed.



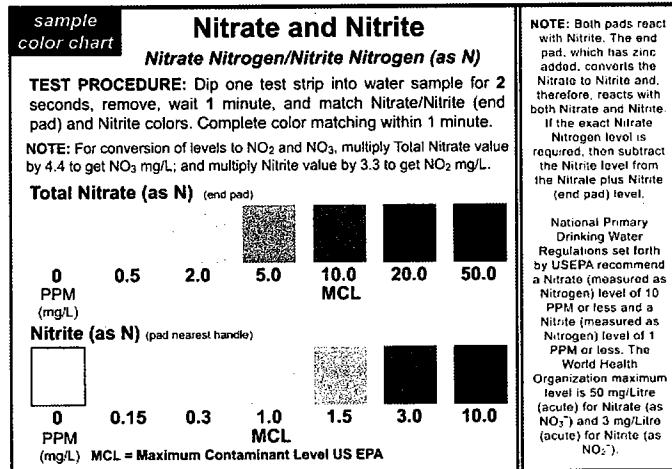
WATER TEST PRODUCTS

NITRATE/NITRITE NITROGEN

Nitrates and Nitrites are often found simultaneously in water and are by products of biological decay and Nitrogen decomposition. Nitrates and Nitrites can lead to infant mortality, adult illness, and dead aquatic life. Nitrites, however, can be very useful as corrosion inhibitors in cooling towers. WaterWorks™ Nitrate/Nitrite strips give the user a safe, accurate method for detecting levels in water. With no chemicals to add or mix, inaccurate results are minimized.



480009 Nitrate/ Nitrite Nitrogen.



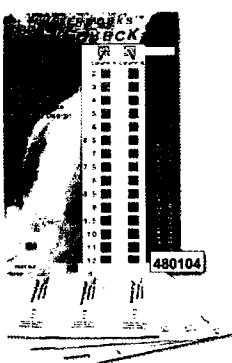
EPA Primary Drinking Water Standard is 10ppm for Nitrate and 1ppm for Nitrite



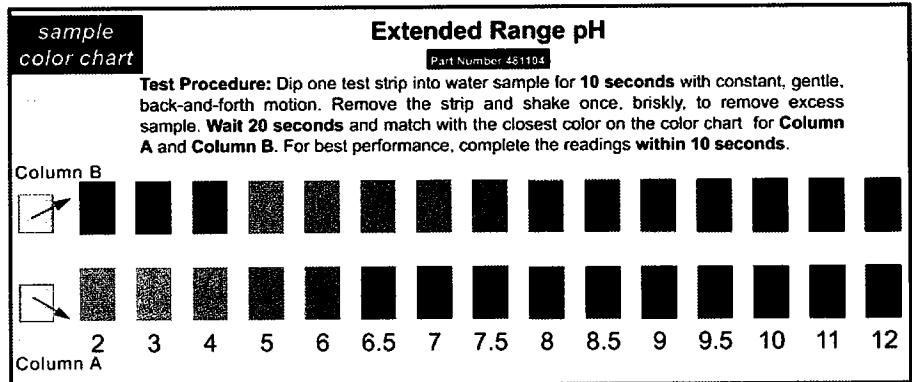
Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
Nitrate/Nitrite Nitrogen Btl 50	Na 0,0.5,2,5,10.0,20.0 Ni 0,0.15,.3,1.0,1.5,3,10	Colorimetric, Zinc Reduction	1 Minute	480009	1	\$31.25

pH CHECK

WaterWorks™ pH strips give the user an accurate alternative to pH meters without sacrificing quality results. Since all required reagents are precisely impregnated on the strip pad, there is no need for calibration. Additionally, WaterWorks™ pH strips may be purchased in individually-wrapped foil packets, making them ideal for use under almost any condition.



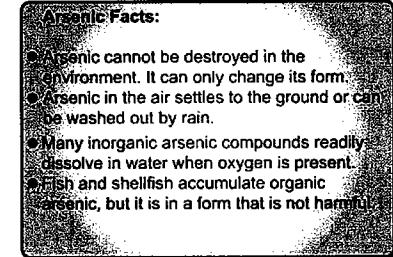
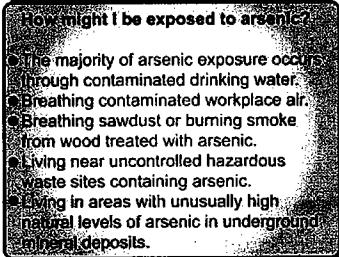
480005 pH Check.



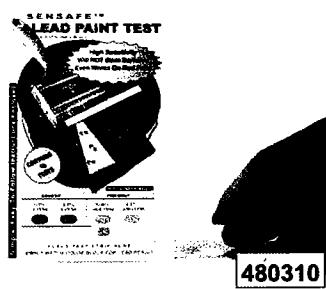
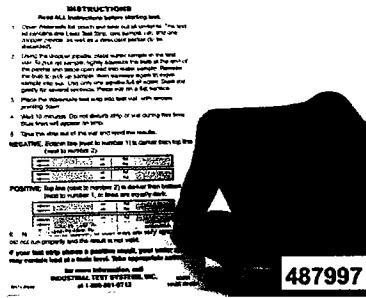
Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
pH Check	2 - 12	Colorimetric, Phenol Red	30 Seconds	480104	12	\$34.69

WATER TEST PRODUCTS**ARSENIC QUICK****481297-1 Arsenic Quick.**

A test strip positioned in the cap of the reaction bottle reacts with arsine gas released from a water sample. As arsine gas is generated and comes in contact with the test pad, the Mercuric Bromide indicator changes in color from white to shades of yellow or brown. After the incubation, the test strip is removed and the pad matched to the color chart to obtain a quantitative measure of inorganic arsenic in the sample.



Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
Arsenic Low Range Quick - 50 tests	3 - 80, >80 ppb	Colorimetric, Modified Gutzeit	12 Minutes	481297-1	12	\$312.50
Arsenic Quick II	1 - 30, >30, >40, >60, >80, >100 ppb	Colorimetric, Modified Gutzeit	14 Minutes	481303	12	\$534.72

LEAD TEST**480310 Lead Paint Test.****480311 Lead Soil Check.****487997 Lead Water Test.**

Lead is a naturally occurring heavy metal in the Earth's crust. With our lead test kits, you can easily detect the presence of lead without having to send a sample to a laboratory for analysis. The US EPA Primary Drinking Water Standard for lead is 0.015 ppm.



Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
Lead Paint Test, 10 tests	0 (0.0%), 600 (0.06%), 5000 (0.5%) ppm (mg/l)	Colorimetric	5 Minutes	480310	12	\$31.25
Lead Soil Check, 5 tests	0 - 400 ppm (mg/l) Colorimetric 1-10 Minutes 5 Packets \$24.99 (tests for lead and other heavy metals)	Colorimetric	1-10 Minutes	480311	12	\$52.08
Lead Water Test, 2 tests	Tests for the EPA limit of 15ppb lead in water using lateral flow strip	Lateral Flow Immuno-assay Strip	10 Minutes	487997	12	\$50.00

WATER TEST PRODUCTS

METALS TEST

SenSafe™ Water Metals Check is the ideal solution for fast, accurate heavy metals screening. Simply dip a patented strip into your water sample for 30 seconds with back and forth motion, remove the strip and wait 2 minutes for the color to develop. Match the color to determine concentration. SenSafe™ Water Metals Check is a valuable screening tool to determine, semi quantitatively, the level of metals present in your distilled water, tap water, and samples for instrumental analysis. Works even with emulsion suspensions and colored samples.



Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
Metals Check, Bottle of 50 tests	<10, 20, 50, 100, 200, 400, 1000 µg/l (ppb)	Colorimetric, PADAP	3 Minutes	480309	12	\$41.67

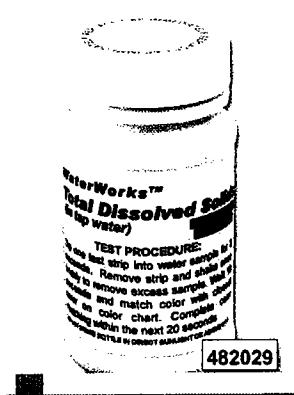
PESTICIDE TEST

The World Health Organization estimates that one-half of the ground and well water in the U.S. is contaminated with pesticides, resulting in 20,000 deaths each year. WaterWorks™ Pesticide Test provides an easy solution for detecting US EPA-established Atrazine and Simazine concentrations in water without having to send a sample out to a lab.

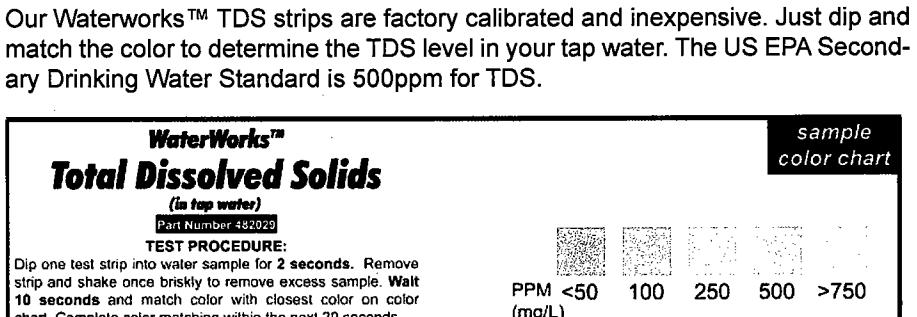


Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
Pesticide Water Test, 2 tests **ETV**	Tests for the EPA limit of 3 ppb atrazine & 4ppb simazine, lateral flow strip	Lateral Flow Strip	10 Minutes	487996	12	\$50.00

TOTAL DISSOLVED SOLIDS



482029 Total Dissolved Solids.

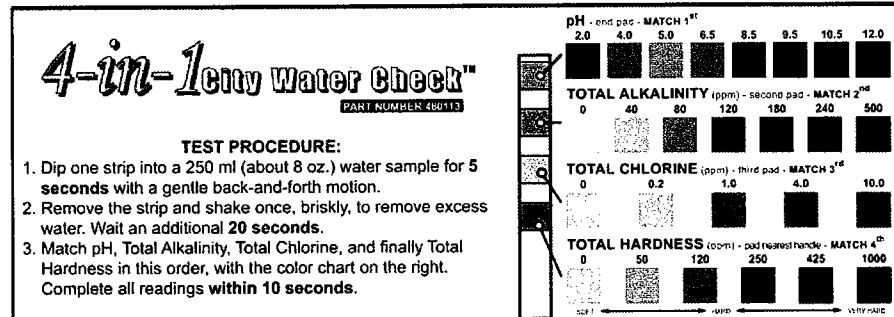


Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
Total Dissolved Solids (TDS) Bottle of 50	<50, 100, 250, 500, >750 ppm (mg/l)	Colorimetric	12 Seconds	482029	12	\$41.67

WATER TEST PRODUCTS**CITY WATER CHECK KIT**

480113 City Water Check.

4in1 City Water Check™ is ideal for service techs and homeowners who need a quick, accurate method for detecting basic ion concentrations in municipal water.



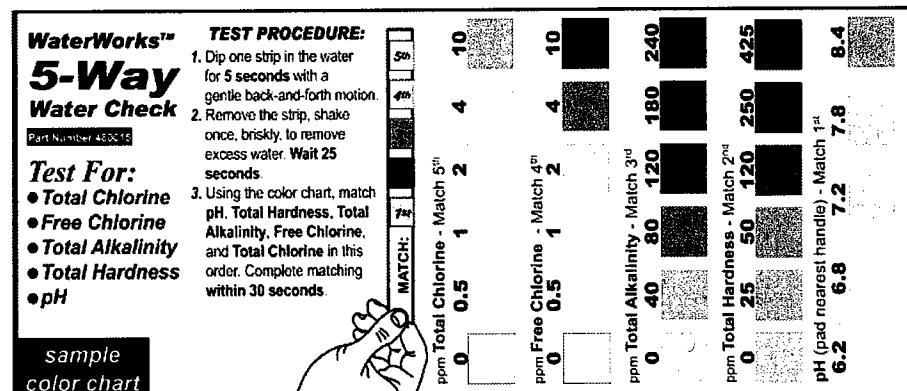
NEW!

Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
4-in-1 City Water Check, Bottle of 25	pH / Total Alkalinity, Total Chlorine, & Total Hardness	Colorimetric	25 Seconds	480113	12	\$27.08

CITY WATER CHECK KITS

480015 City Water Check.

WaterWorks™ 5 is the complete single-dip solution for testing the quality of your water. In one simple dip procedure you get accurate results for Total Chlorine, Free Chlorine, Total Alkalinity, Total Hardness, and pH.

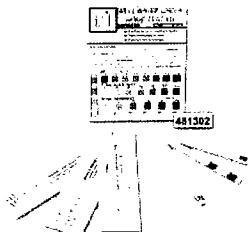


NEW!

Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
5-WAY Water Check, bottle of 50 tests	pH: 6 - 9 Total Alkalinity: 0 - 360 ppm (mg/l) Free Chlorine: 0 - 5 ppm (mg/l) Total Chlorine: 0 - 5 ppm (mg/l) Total Hardness: 0 - 425 ppm (mg/l)	Colorimetric	30 Seconds	480015	12	\$29.17
Tap Check Test Kit, 2 tests of each	pH: 6 - 11 Total Alkalinity: 0 - 720 ppm (mg/l) Iron: 0 - 5 ppm (mg/l) Total Chlorine: 0 - 4 ppm (mg/l) Total Hardness: 0 - 425 ppm (mg/l)	Colorimetric	4 Minutes	WW-10K	12	\$16.67

WATER TEST PRODUCTS

WELL WATER CHECK



481302 Well Water Check.

The Well Water Check™ gives accurate results in under 3 minutes and is perfect for the homeowner. With its safe chemistry and small size Well Water Check™ can easily be mailed to customers who are concerned whether or not their water purification system is working correctly.



Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
Well Water Check, 2 tests of each	pH, Total Alkalinity, Total Hardness, Iron, Nitrate Nitrogen (as N),	Colorimetric	3 Minutes	481302	12	\$16.67

7-WAY TEST KIT

WaterWorks™ 7-Way test kit is a good item for water store sales. Combining safe chemistry, value, and ease-of-use, customers will appreciate being able to monitor the quality of their water without worrying about the risks associated with traditional test methods.



Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
7-WAY Test Kit, 2 tests of each	pH, Total Alkalinity, Total Hardness, Free Chlorine, Total Chlorine, Nitrate Nitrogen (as N), Nitrite Nitrogen (as N)	Colorimetric	4 Minutes	WW-14K	12	\$18.75

9-WAY TEST KIT

WaterWorks™ 9-Way test kit is a full range kit ideal for water shops looking for an affordable testing kit to offer their customers. Performing one test before the treatment unit, and one test after, allows the user to see the effectiveness of the unit.



Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
9-Way Test Kit, 2 tests of each	pH, Total Alkalinity, Total Hardness, Free Chlorine, Total Chlorine, Nitrate Nitrogen (as N), Nitrite Nitrogen (as N), Iron, Copper	Colorimetric	4 Minutes	WW-18K	12	\$20.83

Test	Range	Sensitivity	Recommended Range
Free Chlorine	0 - 5 ppm	0.1 ppm	0.2 - 4 ppm
Total Chlorine	0 - 5 ppm	0.1 ppm	< 4 ppm
pH	6.0 - 11	0.5	6.5 - 8.5
Total Alkalinity	0 - 720 ppm	40 ppm	40 - 240 ppm*
Total Hardness	0 - 425 ppm	50 ppm	50 - 125 ppm*
Iron	0 - 1 ppm	0.05 ppm	< 0.3 ppm**
Copper	0 - 2 ppm	0.1 ppm	< 1.3 ppm
Nitrate Nitrogen	0 - 20 ppm	0.5 ppm	< 10 ppm
Nitrite Nitrogen	0 - 10 ppm	0.15 ppm	< 1 ppm

* Not included in EPA standards at this time

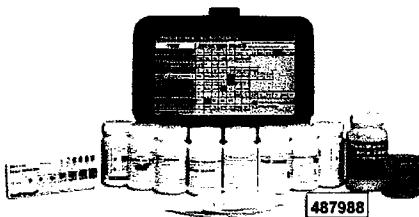
** Included in EPA Secondary Drinking Water Standards

WATER TEST PRODUCTS**COMPLETE HOME WATER QUALITY TEST KIT**

COMPLETE™ is a multi-parameter kit designed to accurately analyze water. Designed using patented and proprietary strips, COMPLETE™ is safe to use since it requires no powders, liquids, or tablets.



Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
COMPLETE Home Water-Quality Test Kit	Tests for: Iron, Copper, Chloride, Nitrate/Nitrite Nitrogen, Total Chlorine, Total Hardness, Free Chlorine, Sulfate, pH, Total Alkalinity, Hydrogen Sulfide, & Bacteria	Colorimetric	4 Minutes + 48 Hours for Bacteria	481199	12	\$52.08

WELL DRILLERS TEST KIT

487988 Well Drillers Test Kit.

Well Driller's Test Kits are a great solution when fast, accurate, on-site results are required. The Well Driller's Test Kits allows you to achieve results before sending samples for laboratory testing; giving you critical time to take remediation steps, if necessary. Testing for 11 critical parameters, the Well Driller's Standard Test Kit is ideal for on-site use.



Description	Detection Levels	Test Methodology	Test Time	Part Number	Case Qty.	List Price (Each)
Well Driller's Test Kit Standard	1 of each: Free Chlorine Water Check (481026), SenSafe Iron Check (480025), Water Metals Check (480309), Manganese Check (480027), Nitrate/Nitrite Nitrogen (480009), Total Hardness, 480008, Extended Range pH Check (481104), Sulfide (481197-20), Ultra Low	Colorimetric	See Individual Product Specs	487988	1	\$260.42

WATER QUALITY AND POOL & SPA SAMPLER CASE

Description	Part Number	Case Qty.	List Price (Each)
Water Quality and Pool & Spa Sampler Case	SC-12	12	\$171.11

Includes one of each: 3in1 Pool and Spa Check, 5in1 Pool Check, 3in1 Low Chlorine, Salt (16 tests for sodium chloride) and 3in1 Copper.

PIPE O.D. CHART

Pipe Type	Pipe Size and Nominal Size																						
Copper, Steel & Plastic Pipe	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	30	36		
Copper Tubing (C.T.S.)	0.63	0.88	1.13	1.38	1.63	2.13	2.63																
Schedule 40 Steel Pipe	0.84	1.05	1.32	1.66	1.9	2.38	2.88																
PVC-STD																							
SDR-13.5,17,21,26,32.5,41																							
Polyethylene Pipe IPS																							
Polyethylene Pipe IPS C 900																							
DR-14,18,25																							
Polyethylene Pipe IPS C 905																							
DR-51,41,32.5,25,21,18																							
Polyethylene Pipe DI Size	3.50	4.50	5.56	6.63	8.63	10.75	12.75	14.00	16.00	18.00	20.00	24.00	30.00	36.00									
Iron Pipe	3	4	5	6	8	10	12	14	16	18	20	24	30	36									
Ductile Iron Pipe																							
Class 150,200,250,300,350																							
Class 100-250 AWWA	3.96	4.80		6.90	9.05	11.10	13.20		17.40	19.50	21.60	25.80	32.00	38.30									
Class A AWWA Pit Cast	3.80	4.80		6.90	9.05	11.10	13.20	15.30	17.40	19.50	21.60	25.80	31.74										
Class B AWWA Pit Cast	3.96	5.00		7.10	9.05	11.10	13.20	15.30	17.40	19.50	21.60	25.80	32.00										
Class C AWWA Pit Cast	3.96	5.00		7.10	9.30	11.40	13.50	15.65	17.80	19.92	22.06	26.32	32.40										
Class D AWWA Pit Cast	3.96	5.00		7.10	9.30	11.40	13.50	15.65	17.80	19.92	22.06	26.32	32.74										
Class 100 Asbestos Cement Pipe	3	4	5	6	8	10	12	14	16	18	20	24	30										
Machined End	3.74	4.64		6.91	9.11	11.24	13.44	15.07	17.15	19.90	22.12	26.48	33.12										
Fluid-Tite Rough Barrel	3.93	5.05		7.16	9.32	11.46	13.70	15.36	17.50														
Flintite M.E.	3.74	4.64		6.91	9.11	10.89	12.99	15.07	17.15	19.90	22.12	26.48	33.12										
Flintite Rough Barrel	3.94	4.90		7.13	9.33	11.30	13.42	15.45	17.60														
Ring-Tite Rough Barrel	3.95	4.92		7.19	9.39	11.47	13.74	15.51	17.65	20.44	22.68	27.12	33.80										
Permaflex Rough Barrel		4.84		7.15	9.35	11.47	13.74	15.55	17.55														
Minimum Standard Rough Barrel		4.79		7.05	9.22	11.25	13.37	15.36	17.50	20.44	22.50	27.17											
Maximum Standard Rough Barrel		5.26		7.40	9.57	11.77	14.04	15.80	17.94	20.44	22.50	27.17											
Class 150 Asbestos Cement Pipe	3	4	5	6	8	10	12	14	16	18	20	24	30										
Machined End	3.84	4.81		6.91	9.11	11.66	13.92	16.22	18.46	20.94	23.28	27.96	35.00										
Fluid-Tite Rough Barrel	4.03	5.14		7.12	9.32	11.85	14.11	16.41	18.65														
Flintite Rough Barrel	4.04	5.01		7.13	9.33	11.88	14.14	16.48	18.72														
Ring-Tite Rough Barrel	4.13	5.07		7.17	9.37	11.92	14.18	16.48	18.72	21.30	23.64	28.32	35.42										
Permaflex Rough Barrel		5.00		7.20	9.40	11.92	14.20	16.50	18.75														
Minimum Standard Rough Barrel		4.97		7.07	9.27	11.82	14.08	16.38	18.62	21.20	23.54	28.22											
Maximum Standard Rough Barrel		5.32		7.37	9.62	12.12	14.38	16.73	18.97	21.20	23.54	28.22											
Class 200 Asbestos Cement Pipe	3	4	5	6	8	10	12	14	16	18	20	24	30										
Machined End	3.84	4.81		6.91	9.11	11.66	13.92	16.22	18.46	22.18	24.66	29.62	37.06										
Fluid-Tite Rough Barrel	4.18	5.32		7.36	9.46	11.88	14.11	16.44	18.74														
Flintite Rough Barrel	4.17	5.32		7.26	9.44	11.88	14.14	16.53	18.84														
Ring-Tite Rough Barrel	4.17	5.33		7.32	9.50	11.92	14.18	16.55	18.90	22.54	25.02	29.98	37.48										
Permaflex Rough Barrel		5.32		7.26	9.50	11.95	14.20	16.55	18.90														
Minimum Standard Rough Barrel		5.22		7.26	9.39	11.77	14.03	16.44	18.74														
Maximum Standard Rough Barrel		5.57		7.60	9.79	12.12	14.38	16.88	19.19														
Sewer Pipe	4	5	6	8	10	12	14	15	16	18	20	24	30										
A/C Sewer Class 1500	4.81		6.92	9.02	11.12	13.22	15.30	16.34	17.38														
A/C Sewer Class 2400	4.87		6.98	9.04	11.16	13.26	15.36	16.42	17.46	19.54	21.66	25.78											
A/C Sewer Class 3300	5.05		7.14	9.22	11.36	13.50	15.46	16.66	17.72	19.82	21.88	26.10	32.34										
A/C Sewer Class 4000						11.50	13.64	15.78	16.84	17.90	20.02	22.10	26.32	32.60									
A/C Sewer Class 5000						11.70	13.86	16.00	17.06	18.14	20.36	22.32	26.60	32.90									
Asbestos Cement ACME	4.62	6.66		8.96	11.05	13.15	15.23	16.11	17.31	19.39	22.45	25.67	32.13										
PVC Plastic SDR 35	4.22		6.28	8.40	10.50	12.50																	
PVC Plastic SDR 41	4.22		6.28	8.16	10.20	12.24		15.30		18.70													
Cast Iron Soil Pipe (No Hub)	4.38		6.30	8.38																			
Cast Iron Soil Pipe (Service Weight)	4.30		6.30	8.38	10.50	12.50																	
Cast Iron Soil Pipe (Extra Heavy)	4.62		6.62	8.75	10.88	12.88																	
Clay Minimum	5.00		7.19	9.25	11.50	13.75		17.19		20.65		27.50	34.38										
Clay Maximum	5.39		7.56	9.75	12.00	14.31		17.81		21.44		28.50	35.63										
Concrete (Average)	6.00		8.00	10.25	12.75	15.50		18.75		22.00		29.00	35.50										
Irrigation Pipe	4	5	6	8	10	12	14	15	16	18	20	24	30										
Asbestos Cement Irrigation Type 5	4.74		6.70	9.02	11.12	13.22																	
Asbestos Cement Irrigation Type 15	4.86		6.81	9.04	11.16	13.26																	
Asbestos Cement Irrigation Type 25	4.97		7.10	9.27	11.31	13.74																	
Plastic Irrigation Pipe (PIP)	4.13		6.14	8.16	10.20	12.24		15.30		18.70		22.05	24.80										

INDEX

304/316 Stainless Steel T-Head Bolts	7	Coal Tar Epoxy	2
3M™ Splice Kit	29	Coal Tar Mastic	2
3-Way Test Valve	75	Concrete Housing Lifter	67
7-Way Test Kit	75	Construction/Turf Marking Paint	19
9-Way Test Kit	75	Copper Adapter Sleeves	6
Accessories	27-31	Corrosion Protection Products	2-9
Air Test Gauges	27	CP Test Stations	6
Air Valve Cans	57	Curb Stop Markers	16
All-Purpose Marking Paint	19	Curb Stop Wrenches	51
Angle Hose Valves	14	Cut Off Wheels	35
Anodes	4	Danger Tape	49
Anti-Seize Lubricating Compound	60	Detectable Tape	18
Arsenic Quick Test	72	Dewatering Filter Bags	45
Asphalt Tools	41	Digging Bars	52
Aviation Snips	37	Drain/Filter Fabric	42-44
Backflow Security/Freeze Blankets	23	Drain-EEZ™	44
Bare Copper Wire	29	Duct Tape	30
Barrier Fencing	46	Ductile Iron Blades	35
Bell Reducer Gauge	27	Earplugs	47
Bio-Max® Dechlorination Tablets	25	Electronic Markers	17
Bit Wrap Asphalt Tape	3	Engineering Tape Measure	29
Blue Bolts	8	Extra Heavy-Duty Digging Bar	52
Brass Grounding Clamps	9	EZ Pocket Net Fence	46
Breakable Padlocks	14	Fire Dept. Connection - Brass Plug	15
Brooms	39	Fire Dept. Connection - Cap & Chain	15
Bucket Apron	33	Fiberglass Sledgehammer	40
Bucket/5 Gallon	33	Filter Fabric	42-44
Cad Welder Accessories	6	Fire Hose Nozzles	15
Cad Welder Molds	5	Fire Hoses	14
Cap & Chain - FDC	15	Fire Hydrant Gate Valve	15
Captor® Dechlorination - Liquid Calcium	25	Fire Protection Gauge	28
Cathodic Insulation Covers	5	Fire Valve Connections	14
Cathodic Protection Cable	9	Fire Valves & Accessories	14-16
Caution Tape	49	Flange Insulation Kits	3
Channellock® Pliers	38	Floor Drain Wrench	64
Chip Brush	28	Gas Shut-Off Wrench	64
Chlorine	24	Gaskets	12
Chlorine Manifolds	24	Gate Valve Wrenches	52
Chlorine Water Check	69	Gauges	27-28
C-Hook Pipe Lifter	68	Gloves	32
City Water Check Kit	74	Gravel Bags	44
Clean-Out Plug Wrenches	65	Grommets - Plastic	
Clean-Up Bags	47	Ground Rod Clamps	9
Clip-Its	45	Ground Rod Driving Sleeves	6

INDEX

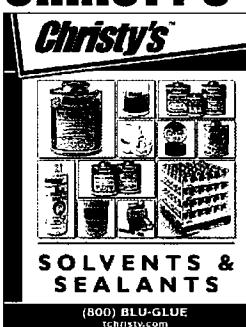
Ground Rods - Copper	6	No OX Rust Inhibitor	2
Ground Reflectors	17	Non-Detectable Tape	18
Grounding Clamps - Brass	9	Non-Detectable Tape	18
Hacksaws	36	Norweco® Bio Neutralizer Tablets	25
Hand Cleaning Towels	30	OD Tape Measure	29
Hand Tool Accessories	32-39	Orange Safety Bar Cap	46
Handi-Pump	31	Orange Safety Construction Fencing	46
Handsaws	36	Packaged Bolt Sets	13
Hawk-Eyes™ Safety Glasses	48	Packaging Tape	48
HD-50	2	Pallet Covers	48
Holesaws	34	Pallet Puller	67
Hydrant Adapters	16	Pavement Reflectors	17
Hydrant Lifting Sling	53	Perforated Pipe Sleeving	44
Hydrant Wrap	49	Permatex® Aerosol Undercoat	3
Iron Check Strips	70	Permatex® Form-A-Gasket Sealant	24
Jumpers/Bonding Cables	9	Pesticide Test	73
Lead Test	72	Petol Sight Glass	63
Lenox® Accessories	37	pH Check	71
Lifting Slings	66	Picks & Mattocks	40
Lifting Tools	66-68	Pipeline Access Cart	53
Liquid Bazooka Dechlorinating Units	25	Pipe & Hose Repair Kit	31
Liquid Filled Gauges	28	Pipe Cutters	34
Loadbuster™	47	Pipe Joint Lubricant	31
Low Pressure Air Test Gauge	27	Pipe Lube Applicator	28
Lubricants & Protectants	60	Pipe O.D. Chart	77
Magnesium Spikes	5	Pipe Supports	58
Manhole Hooks	52	Pipewrap Tape	31
Manhole Sleeve Lifter	68	Polyken Tape/Primer	11
Manhole Waterstop Gaskets	12	Polywrap Pipe Encasement	20-22
Marking Paint	19	Post Hole Digging Bar	52
Marking Posts	17	Pressure Gauges	27
Marking Products	16-19	Prime-It™ Pipewrap Primer	31
Marking Tape	18	Privacy Screen	45
Masonry Blades	35	Pro-Lube™	31
Metal Blades	35	PTFE Tape	30
Metal Guard	3	Quick-Choke Pipe Lifting Sling	68
Metals Test	73	Replacement Handles	40
Meter Box Lid Remover	53	Royston #747 Primer	3
Mini Saddle Tap XL	55	Rust Inhibitor	60
MJ Gaskets	12	Sacrificial Anodes	4
Neomask®	47	Saddle Tap XL	55
Nipple Bag	48	Safety & Job-Site Accessories	47-48
Nitrate/Nitrite Nitrogen	71	Safety Cones	47
No Hub Torque Wrench	37	Safety Glasses	48

INDEX

Safety Mask	47	Valve Operator Key Set	64
Safety Vest	47	Valve Stem Extensions	59
Sediment Control Filter Bags	45	Vandal Resistant Vent Caps	56
Shovels	39	Vent Caps	56
Shrink Wrap	48	Vita-D-Chlor Dechlorinating Granules	25
Skimmer Test-Plug Wrench	52	Wafer Check Valve - UL/FM	15
Silt Erosion Fencing	46	Warehouse Fitting Bags	48
Slab Tongs	66	Warehouse Supplies	48
Sledges & Mallets	40	Warning Tapes	49
Slick-Wrap™	31	Wasp Spray	60
Smoke Candles	26	Water Hardness	70
Soil Probes	53	Water Meter Key	52
Specialty Tapes & Coatings	10-11	Water Meter Wrench	51
Specialty Tools	62-65	Water Quality Test Kit	76
Speed Hand Wheel	51	Water Quality/Pool & Spa Sampler	76
Split Bolt Connectors	29	Case	
Striking Tools	40	Water Sampling Stations	59
Striking Wrenches	61	Water Specialty Products	24-26
Supervisory Switches	14	Water Test Gauge	27
Survey Marking Paint	19	Water Test Kits	74-76
Tape Measures	29	Water Test Products	69-76
Tapecoat Tapes	10	Water Tracing Dye	26
TC® Omniprime®	2	Waterline Replacement Kit Parts	54
Terminal Enclosure	6	Waterline Replacement Kits	54
Test Gauges	27	Waterworks Fabrication	57-59
Test Plates	53	Waterworks Tool Rack	50
Test Valves	14	Waterworks Tools	50-54
T-Head Bolts	7	WD® 40	60
Thermoweld® Powder	9	Well Drillers Test Kit	76
Thread Sealant	30	Well Water Check Test	75
Tie Down Straps	39	Wrenches	38
Titan Valve Wheel Latch Wrench	62	Zinc Cold Galvanizing Compound	60
Titan Flange Key	62	Zinc Threaded Protection Caps	5
Titan Flange Spreader	62		
Titan Valve Wheel Wrench	63		
Tool Belt	33		
Total Dissolved Solids	73		
Tracer Wire	29		
Trash Bags	47		
Trenton Wax Tapes	10		
Tyton Joint Gaskets	12		
Ultra-Seal™	30		
Underground Marking Tape	18		
Valve Lifter	53		

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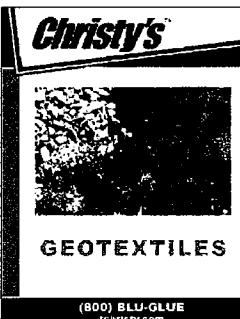
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